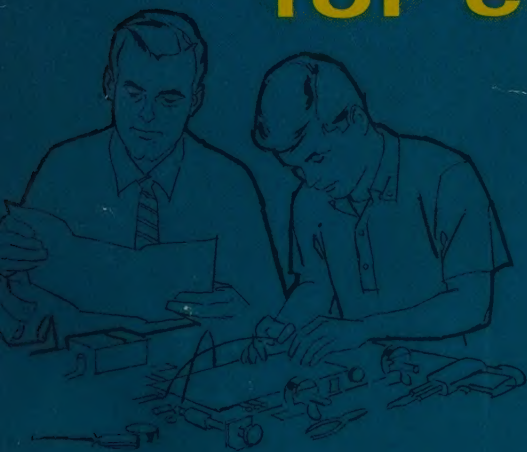


including the  
complete 1962  
**knight-kit®**  
CATALOG  
pages  
385-440



# ALLIED

## ELECTRONICS for everyone



### 1962

OUR 41ST YEAR

CATALOG 210  
INDEX: PAGE 361

# ALLIED RADIO

100 N. WESTERN AVENUE • CHICAGO 80, ILLINOIS • HAYmarket I-6800

Superb Changers in Every Price Range . . . Famous British Craftsmanship



## Type "A" Deluxe Automatic Turntable

ONLY  
**\$79<sup>50</sup>**  
NO MONEY  
DOWN

The first 4-speed record-playing unit to offer the convenience of an automatic record changer, with the superb fidelity of a professional turntable. Has dynamically balanced, 6-lb. cast turntable of unique, noise-damping design; ultra-quiet, laboratory-balanced 4-pole motor; velvet-smooth pusher-type changer mechanism; precision pickup arm with built-in stylus pressure gauge for exact setting to any tracking force; many other features. 16x13 $\frac{1}{4}$ "; requires 2 $\frac{3}{8}$ " below, 6" above motor board. Less base and cartridge. For 100-130 v., 60 cycle AC. Shpg. wt., 59 lbs.  
89 RX 716. **No Money Down. ONLY.....79.50**

20 RX 204-2. Type "A" Automatic Turntable, with your choice of any one of the cartridges at right, below. (Specify Cartridge) ..... **79.51**



## New "Autoslim" Automatic Changer

ONLY  
**\$39<sup>50</sup>**  
NO MONEY  
DOWN

Derives its name from its unusually compact size. The 4-speed "Autoslim" features: intermix of all records of the same speed regardless of size or sequence; new center-changing mechanism; separate manual and automatic controls; new 4-pole shaded motor; die-cast, non-resonant pickup arm with special locking clip; other fine touches, etc. 14 $\frac{1}{4}$ "x12 $\frac{1}{2}$ "; requires 2 $\frac{3}{8}$ " below, 4 $\frac{1}{4}$ " above motor board. Less base and cartridge. For 100-130 v., 60 cycle AC. Shpg. wt., 9 lbs.  
89 RX 740. **No Money Down. ONLY.....39.50**

20 RX 225-2. New "Autoslim" Automatic Changer, with your choice of any one of the cartridges at right. (Specify Cartridge) ..... **39.51**

**SAVE UP TO \$34.99**  
SPECIAL OFFER! BUY ANY GARRARD CHANGER  
. . . GET ONE OF THE CARTRIDGES BELOW  
FOR ONLY **1<sup>c</sup>** MORE!



## New Type AT6 Automatic Turntable

ONLY  
**\$54<sup>50</sup>**  
NO MONEY  
DOWN

Designed in the same spirit as the Type "A", the new 4-speed AT6 provides professional performance in a somewhat smaller unit. New tubular pickup arm has adjustable counterweight for perfect balance with any cartridge, plus built-in gram scale for precisely setting tracking pressure. Over-size turntable for reliable, accurate speed; new interchangeable spindles for playing records singly; powerful, silent-running 4-pole shaded motor; and more. 14 $\frac{1}{2}$ "x12 $\frac{1}{2}$ "; requires 2 $\frac{3}{8}$ " below, 4 $\frac{1}{4}$ " above motor board. Less base and cartridge. For 100-130 v., 60 cycle AC. Shpg. wt., 12 lbs.

89 RX 739. **No Money Down. ONLY.....54.50**

20 RX 224-2. New AT6 Automatic Turntable, with your choice of any one of the cartridges described below. (Specify Cartridge) ..... **54.51**

**YOUR CHOICE OF ANY ONE OF THESE FINE STEREO CARTRIDGES INCLUDED WITH ANY CHANGER—AT PRACTICALLY NO EXTRA CHARGE!**

### CARTRIDGE COST (IF PURCHASED SEPARATELY)



**KNIGHT KN-500X.** .0005" diamond stylus. Wt., 3 oz.  
89 RC 225. **NET.....17.95**



**SHURE M7D.** .0007" diamond stylus. Shpg. wt., 3 oz.  
79 RC 242. **NET.....23.52**



**PICKERING 380C.** .0007" diamond stylus. Wt., 2 oz.  
89 RC 291. **NET.....29.85**



**EMPIRE 108.** .0007" diamond stylus. Wt., 3 oz.  
89 RC 273. **NET.....35.00**



# ALLIED

**guarantees your  
complete satisfaction  
OR YOUR MONEY BACK**

Every item you buy from us  
must satisfy you in every way or  
we want you to return it for  
exchange, repair or refund...

**this is the Allied Pledge**

- to save you time and money
- to ship speedily and safely
- to satisfy you completely

**NEW ALLIED CREDIT FUND PLAN  
NOW GIVES YOU  
50% MORE BUYING POWER**

*see page 360*

## ALLIED RADIO CORPORATION

100 N. WESTERN AVENUE • CHICAGO 80, ILL.

Phone: HAYmarket 1-6800

*the world's largest electronic supply house  
our 41st year of service*

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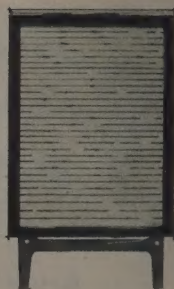
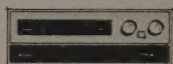
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see page 360*

*For How to Order  
see pages 365-366*

# ALLIED brings into your home at lowest cost

## the supreme beauty of TRUE STEREO HIGH-FIDELITY through TRUE HIGH-FIDELITY COMPONENTS



only **HIGH-FIDELITY COMPONENTS** can bring you these advantages:

**Better Sound for Your Money.** Hi-fi components are designed and built by specialized manufacturers whose primary interest is the creation of fine audio instruments.

**More Flexibility.** Compact in size, hi-fi components can be placed anywhere . . . in any room, on shelves, in "built-ins", or your own choice of attractive hi-fi cabinetry.

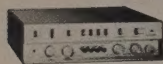
**Acoustically Designed Speaker Enclosures.** You get genuine hi-fi speaker enclosures, acoustically designed to produce rich, natural sound—approved designs are always used. These include bass reflex, folded horn, infinite baffle and ducted port types, plus the popular high-compliance types. The sound you get is truly superior.

**THIS IS  
STEREO  
SOUND:**

The ultimate in musical realism is stereo hi-fi. Stereo is actually 2-channel sound; that is, two microphones are used to make two simultaneous recordings—one from each side of the performing group. Each of these channels of sound is then applied to records, tapes or broadcasts. On records, a separate channel of sound

is put on each side of a V-shaped record groove. On tapes, each channel of sound is recorded on a separate portion of the tape width. And in stereo radio broadcasts, these two channels of sound are transmitted over the air from a single FM station, to bring you our newest source of stereo music—stereo multiplex FM broadcasts.

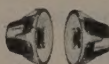
**... AND HERE'S A BASIC STEREO HI-FI PHONO SYSTEM**



Stereo Amplifier



Stereo  
Turntable or Changer

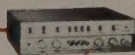


Two Speakers



Two Speaker  
Enclosures

Designed to give you two-channel sound from stereo records, the system works in this way: as the stereo record turns, the stereo cartridge picks up two recordings, each a different channel of sound from either side of the stereo record groove. Each channel is fed into the stereo amplifier, which is really two amplifiers in one. The amplifier then feeds each channel of sound into its respective speaker system. You may add a multiplex FM tuner to receive stereo radio broadcasts, or a tape deck to play recorded stereo tapes.



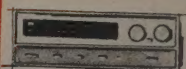
**COMPONENTS ARE  
EASY TO CONNECT—  
JUST PLUG IN!**

No technical knowledge is required. Simply plug the record changer connectors into the amplifier—they're color-coded—just match the colors on the receptacles to the colors on cables and plugs. Connect the speakers to the amplifier—speaker cables and amplifier terminals are color-coded too! Plug the amplifier into an AC outlet . . . and thrill to magnificent music from your Allied Stereo Hi-Fi System!

### KNIGHT AND KNIGHT-KIT HI-FI—YOUR BEST BUYS

Unconditionally guaranteed for one full year, and way ahead in design and features, Allied's own Knight components are honored as the finest hi-fi values anywhere. Allied brings you famous Knight-Kits, too—an outstanding selection of superior hi-fi components in build-your-own form. Created by Allied, these fine kits are enjoyable to assemble—you'll take pride in the thrilling performance of a Knight-Kit you've built yourself.

**NOW! ENJOY NEW  
MULTIPLEX STEREO  
FM RECEPTION!**



MULTIPLEX  
FM TUNER

ADAPTER



### ABOUT MULTIPLEX STEREO

This new source of stereo sound is simply two channels of sound broadcast from a single FM station. In order to receive these stereophonic broadcasts, you can:

**ADD A MULTIPLEX TUNER** to your stereo record-playing system, or . . .

**ADD A MULTIPLEX ADAPTER** to the FM tuner you presently have in your stereo music system. Most tuners sold in recent years are equipped with an output jack for accepting multiplex adapters.

Once you have added either a multiplex tuner or an adapter to your stereo system, you merely tune in any FM station that is "stereocasting." That's all there is to it!





**ALLIED makes it easy for you to select  
your home music system at greatest savings**

**SELECT FROM THE WORLD'S LARGEST STOCKS**

This catalog presents *everything in high-fidelity*—amplifiers, tuners, speakers, record changers, turntables, cartridges, tape recorders, etc. Biggest selections of famous standard-brand components, and hard-to-get accessories, too—all are included here in a wide range of prices, always in stock, ready for prompt shipment to you.

**SELECT AN ALLIED-RECOMMENDED MUSIC SYSTEM**

You'll find many excellent systems on the following pages, made up of components that are carefully matched in quality and operating characteristics. Pay particular attention to the new Knight systems, and do-it-yourself Knight-Kit systems. They're selected to give you unprecedented quality in music reproduction at lowest cost.

**SELECT YOUR OWN SYSTEM—GET OUR SPECIAL PRICE**

Study the pages on which individual hi-fi components are described—make a list of the units you prefer—then just write to our Audio Division asking for a special System Plan price quotation. Our audio consultants will review every customer-selected system for proper matching of components (speakers correctly matched to enclosures, etc.), to assure you of peak performance. You can count on a prompt reply to your quotation request—and all of Allied's FREE music system extras are included in any system you select.

**HOME TRIAL PLAN For Your Complete Satisfaction**

Buy any hi-fi component or system on cash terms or on our Credit Fund Plan. Then check performance in your own home. If you are not fully satisfied with your purchase for *any reason*, return the equipment to us. We will refund the full price, less only transportation charges.

**Complete Warranties.** All hi-fi components sold by Allied are covered by standard manufacturers' warranties and Allied's own warranty on Knight and Knight-Kit products. In addition, you are protected by Allied's guarantee of complete satisfaction or *your money back*. We have expert servicing facilities for everything you buy.

*we sell more hi-fi than anyone else in the world*

**BECAUSE WE GIVE YOU EVERY BUYING ADVANTAGE**

**Lowest, Money-Saving Prices . . .** on all hi-fi components; special savings on our matched music systems and on Knight and Knight-Kit products.  
**World's Largest Selection . . .** of everything in hi-fi, in stock ready for prompt shipment to you.

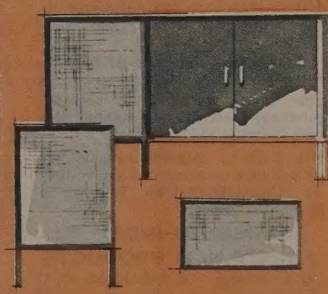
**Expert Counseling Service.** Our audio specialists will be glad to answer any question you may have on high-fidelity. For assistance in choosing a hi-fi music system to fit your taste and budget, write to Allied's Audio Division. All inquiries promptly answered.

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**ALLIED-RECOMMENDED  
HI-FI MUSIC SYSTEMS  
ARE ON PAGES 30-39**

**NO MONEY DOWN . . .** you get 50% more buying power with Allied's new Credit Fund Plan! Enjoy the stereo hi-fi equipment you want now—take up to 24 months to pay.



**WORLD'S LARGEST  
SELECTION OF  
CRAFTSMAN-CREATED  
HI-FI CABINETS  
AT LOWEST PRICES**

An outstanding selection of fine furniture in styles and finishes to match any decorative scheme—in price ranges to suit any budget. Make it a point to check Allied's superb array of hi-fi furniture. You'll find matching ensembles of unusual beauty and individual pieces in a complete range of furniture modes.





# KNIGHT

## HI-FI COMPONENTS

### THEY GIVE YOU MORE IN EVERY WAY

because the best of today's electronic technology goes into every KNIGHT product

Encompassing the best in standard design, and incorporating the latest advances in electronics . . . Knight products are unquestionably your finest values in high-fidelity components for home music entertainment.



Outstanding buys in tuners and amplifiers employing conventional vacuum tubes.



Sensational new transistorized equipment, setting the pace in hi-fi of the future.



Stereo FM tuners using RCA-developed Nuvistors—tiny tubes doing a big job!

**STEREO MULTIPLEX FM.** All Knight FM tuners (except KN-141C), include newest stereo FM multiplex circuitry.



### THE COMPLETE FAMOUS-BRAND LINE

With the best in standard design—the latest in new developments—and a built-in discount. You get maximum value for your hi-fi dollar with KNIGHT.

### MONEY-BACK GUARANTEE

You must be completely satisfied with your Knight component or your full purchase price will be refunded, less only transportation charges.

**NO MONEY DOWN** to own any Knight unit or music system on our new Credit Fund Plan. Take up to 24 months to pay.

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**KNIGHT MUSIC SYSTEMS.** You'll find a marvelous array of music systems on pages 30-33.

## now! enjoy the thrill of stereo FM reception with the new low-cost KNIGHT STEREO MULTIPLEX ADAPTER



add stereo FM listening pleasure

### New Multiplex Adapter for Stereo FM

ONLY  
**\$44.50**

**NO MONEY DOWN**

Self-powered—works with any recently made FM tuner equipped with multiplex output jack—Knight, Scott, Sherwood, Fisher, Bogen, Harman-Kardon, and many others.

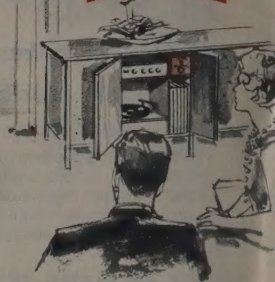
- Works as well as Adapters Selling for Much More!
- Gives You Superior Stereo Separation for Best Stereo Listening Effect

Here it is—a low-cost multiplex adapter for receiving exciting new FM stereo broadcasts with your stereo music system! Takes just minutes to connect the KN-MX unit—works with Knight and most other hi-fi FM tuners equipped with multiplex output jack. Has one simple control to vary the stereo listening effect, and off-on switch. Here's how easy it is to connect the KN-MX to your present FM tuner—plug the adapter into the tuner; plug adapter into your stereo amplifier (all necessary audio cables are supplied); plug the adapter into a convenience outlet on either your amplifier or tuner—that's all there is to it! Unusually compact, the KN-MX adapter is only 4 1/2" high, 5" wide, 7 7/8" deep. Even if your stereo music system is custom-installed in cabinetry, you'll have no trouble finding room for this adapter! New Knight styling with metal case in dark brown textured finish, and polished brass panel. Made in U.S. For 110-120 v., 60 cycle AC. Shpg. wt., 6 lbs.

35 DX 809. No Money Down. ONLY **44.50**

### WHAT MULTIPLEX STEREO MEANS TO YOU

It means a new source of stereo music enjoyment for you, in addition to records and tapes. Multiplex transmission is *two* channels of sound (stereo), broadcast by *one* FM station. To receive these new stereo hi-fi broadcasts, *you must add a multiplex adapter to the FM tuner in your stereo music system.* (The KN-MX above is a splendid choice.) Although stereo FM broadcasting is a new development in radio, its superiority has been instantly recognized. The majority of FM stations in the U.S. have plans for this new mode of transmission, and in many cities, "stereocasts" are now on regular broadcast schedules.





**new and only at Allied:** amazing music center  
with all-transistor/Nuvistor circuit, PLUS MULTIPLEX



**NEW  
MULTIPLEX**

add only stereo speakers and record changer  
for a complete stereo music ensemble

**KN  
310M**



most compact, most advanced "all-in-one" unit ever made!

## Stereo Multiplex FM Tuner . . . with 40-Watt Stereo Amplifier

ONLY  
**\$239<sup>95</sup>**  
NO MONEY  
DOWN

### EMPLOYS 24 TRANSISTORS AND 4 NUVISTORS!

- Has No Equal in Design, Performance and Convenience Features
- Only 4 $\frac{1}{2}$ " High, 9 $\frac{1}{4}$ " Wide, 8" Deep—You Can Put It Anywhere!

Ingenuously designed, the new KN-310M is a modern marvel of acoustic engineering, utilizing latest electronic developments. Combines, in a single unit of unbelievable compactness and light weight, a supremely sensitive transistor-Nuvistor stereo FM tuner . . . and an all-transistor 40-watt stereo amplifier, with full array of controls and inputs. Add only stereo speakers and stereo record changer to have a music reproducing instrument that: plays stereo and monophonic LP records; receives stereo FM and monophonic FM broadcasts; accepts any other source of music such as tape deck, etc.; and gives you fabulous audio reproduction, unlike anything you've heard before! Sound is silk-smooth, and absolutely free of noise, hum or distortion—while broadcast reception of any mode of FM is downright brilliant! Thoroughly lab and field-tested, the new KN-310M Receiver is far in advance of any other hi-fi unit of similar function. It is a great value.

Highlights of the FM Tuner section: uses 8 transistors and 4 RCA Nuvistors in RF amplifier, mixer, oscillator and AFC sections for amazing sensitivity, lowest noise and stability. Signal strength meter, automatic frequency control, etc. *Usable IHFM Sensitivity:* 2 microvolts for 30 db of quieting. **Amplifier Highlights:** uses 16 transistors, 2 thermistors, 4 diode rectifiers (no tubes or output transformers are employed), for operation that is absolutely free of heat, hum or microphonics—and superb sound. Tape head inputs, tape output jacks, every other desirable control. *IHFMM Music Power Output:* 40 watts; 20 watts per channel, at less than 1% harmonic distortion. *Response:*  $\pm 1$  db, 20-20,000 cps at rated power. *Hum:* -90 db (Tuner), -60 db (Mag Phono). Made in U.S. For 110-120 v., 60 cycle AC. Wt., 18 lbs.  
35 DU 816. No Money Down. ONLY. . . . . 239.95

35 DU 848. KN-310M, Less Multiplex. Add KN-MX adapter (on opposite page), at your convenience. . . . . 199.95

**ABOUT POWER OUTPUT OF TRANSISTORIZED AMPLIFIERS.** Power ratings of Knight and Knight-Kit transistor amplifiers are based on a 4-ohm load impedance. However, you may use these amplifiers with any 8 or 16-ohm speakers—there is only a slight reduction in power output and you enjoy all the benefits of transistor circuitry, including the extended, remarkably natural bass response achieved through elimination of output transformers.

**NEW**

## Hi-Fi First! Knight "All-in-One" Receiver with CLOCK-TIMER automatically turns your stereo system on or off at preset times

**KN  
310MC**

**EXCLUSIVE WITH ALLIED.** An important convenience feature! The new KN-310MC is the same transistor-Nuvistor stereo receiver described above, with front-panel clock-timer and wider case. Gives you an accurate electric clock, plus the convenience of automatic control—can be set to turn your system on at any given time; can be used with "lullaby" feature. "Lullaby" switch turns off your music system at any time up to one hour after you go to bed! 4 $\frac{7}{8}$ x13 $\frac{1}{4}$ x8". Wt., 20 lbs.  
35 DU 852. No Money Down. ONLY. . 254.50





# KNIGHT

## ALL-TRANSISTOR giant-power stereo amplifier

**KN**  
**450**

*likely to become tomorrow's most-copied amplifier*

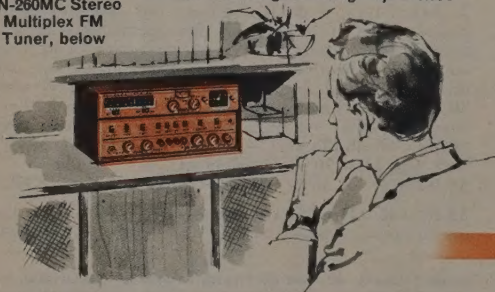
**NEW**



*the amplifier that audio engineers will admire, and music lovers applaud*

*enjoy tremendous power and the purest sound imaginable—a completely new and exciting listening experience*

Matches the  
KN-260MC Stereo  
Multiplex FM  
Tuner, below



### EXTRAORDINARY ADVANTAGES OF THE KN-450:

- Has Lower Noise Level Than Any Other Stereo Amplifier, Regardless of Price
- Works With Any Speaker—Actually brings Out the Best Sound That Speaker Is Capable Of
- Special All-Transistor Circuitry is Designed to Last a Lifetime; Entirely Free of Heat
- Superior Reproduction of Sound with Every Delicate Shading and Nuance of Music
- Military-Type Terminal Board Wiring

**KN**  
**260MC**

### ALL-TRANSISTOR/NUVISTOR STEREO Multiplex FM Tuner

*for superior reception of FM and Stereo FM broadcasts*

**NEW  
MULTIPLEX**



with new CLOCK-TIMER . . . exclusive with Allied



## New Knight KN-450 All Transistor 75-Watt Stereo Amplifier

designed to highest professional standards . . . for home listening pleasure

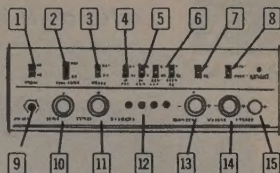
ONLY  
**\$199<sup>95</sup>**  
NO MONEY  
DOWN

Introduce yourself to an exciting new sound in stereo hi-fi reproduction—the clean, silvery sound created by a new transistorized stereo amplifier that is destined to become one of the most-imitated units in high-fidelity. The new KN-450 75-watt stereo amplifier gives you all of the unique advantages of transistor design that audio engineers have long known about—pure, nearly transparent musical reproduction unlike anything you've ever heard before; virtually unmeasurable hum and noise levels; complete absence of heat; small size (and therefore, smaller more compact case design); and the phenomenal stability and reliability of operation that transistors and terminal board construction are deservedly renowned for. Circuit of the KN-450 employs a total of 18 transistors and 2 silicon diode rectifiers—no tubes or output transformers are used—for maximum power and lowest distortion.

Other important benefits you derive from transistor design: immunity to noise that may be picked up or amplified from vibration or other mechanical sources; no warm-up time needed—your records play instantly after the KN-450 is turned on; silence between passages of music on records; light weight, since no transformers are used; "place anywhere" design because the KN-450 always runs cool and does not require ventilation; and extremely low power consumption (current drain).

You also get: a full array of controls, listed at right; center-channel output for third-channel stereo use without employing an extra amplifier (has output terminals on rear panel); headphone jack on front panel which silences speakers when you plug in a headset for private stereo listening; tape monitor switch that enables you to monitor your own stereo tape recordings (both channels, or either channel separately), while recording; rumble filter for suppressing record changer or turntable motor noises; scratch filter for use when playing old or worn records; and much more.

**IHF M Music Power Output:** 75 watts; 37½ watts per channel. **Frequency Response:** ±0.5 db, 20 to 30,000 cps at rated power. **Harmonic Distortion:** 0.5% at rated power. **Hum & Noise:** 90 db below rated output (Tuner); -60 db (Magnetic Phono). **5 Pairs of Inputs:** Magnetic Phono, Tape Pre-amp, Tuner, Auxiliary, Tape Monitor. 2 convenience AC outlets. Size, 3¼x13½x10¾". Color-matched to the KN-260MC tuner described below. Has dark brown textured metal case, polished brass panel. Made in U.S. For 105-120 v., 50-60 cycle AC or 12-28 v. DC. Shpg. wt., 17 lbs. 35 DU 818. No Money Down. ONLY . . . 199.95



### EVERY ESSENTIAL CONTROL

1. Power Off-On
2. Tape Monitor switch
3. Stereo-Monophonic switch
4. Scratch Filter switch
5. Rumble Filter switch
6. Dual Phasing switches
7. Loudness Off-On switch
8. Stereo Normal and Reverse
9. Stereo Headphone jack
10. Bass control
11. Treble control
12. Pushbutton Input Selector
13. Stereo Balance control
14. Volume control
15. Stereo Separation control

### ABOUT POWER OUTPUT OF TRANSISTOR AMPLIFIERS

The power rating of Knight and Knight-Kit transistor amplifiers is based on a 4-ohm load impedance. However, you may use these amplifiers with any 8 or 16-ohm speakers—there is only a slight reduction in power output and you enjoy all the benefits of transistor circuitry, including the extended, remarkably natural bass achieved through the elimination of the output transformers.

## New Knight KN-260MC Transistor-Nuovistor Stereo Multiplex FM Tuner

with precision Clock-Timer . . . automatically turns system on or off

ONLY  
**\$154<sup>50</sup>**  
NO MONEY  
DOWN

Brilliant new design—new features—new convenience—and new listening pleasure! The KN-260MC stereo FM tuner gives you everything it is possible to design into an FM tuner at this stage of the audio art. A sensitive transistor-Nuovistor circuit that provides dazzling reception of FM and stereo FM broadcasts; an easy-to-use tuning meter that tells you positively when you're getting peak signal strength from any station; automatic frequency control (AFC) for no-drift, locking-in of the station of your choice; and a clock-timer that gives you the benefit of automatic control of your stereo hi-fi music system, as well as the accuracy of an electric clock. You can use the clock-timer as your unflinching "memory" for tuning in favorite stations at pre-selected times (and turning them off when the program is over); or as your morning alarm clock; etc. The KN-260MC employs four RCA 6CW4 Nuovistors in RF, oscillator, mixer and AFC stages; and 8 transistors in multiplex and other sections of its circuit. Color-styled same as KN-450 amplifier above. **Usable IHF M Sensitivity:** 2 microvolts for 30 db of quieting. Made in U.S. For 110-120 v., 60 cycle AC. Shpg. wt., 10½ lbs. 35 DU 853. No Money Down. ONLY . . . 154.50



Amazingly compact—  
only 2¼x13½x8"  
Fits beautifully anywhere

**MONEY-BACK GUARANTEE.** If you are not completely satisfied with your Knight hi-fi unit, return it. We will refund full purchase price, less only transportation charges.

**FULL ONE-YEAR WARRANTY.** Knight components are also covered by Allied's one-year warranty against defects in material and workmanship.





# KNIGHT

sensational new Transistor-Nuvistor FM Tuner

with built-in STEREO MULTIPLEX circuitry

**KN**  
**250M**

**NEW**  
**MULTIPLEX**



only 2 1/2" high, 9 3/4" wide, 8" deep

incorporates newest features for new sensitivity, new depth

ONLY

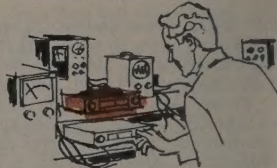
**\$139<sup>95</sup>**

**NO MONEY  
DOWN**

## Transistor-Nuvistor Stereo Multiplex FM Tuner

- Most Significant Advancement in Tuner Design in Years!
- Employs RCA Nuvistors for Dazzling Sensitivity and Transistors for Compactness and Heat-Free Stability
- Flawless Reception of FM and FM Stereo Broadcasts

Rigidly Lab and Field  
Tested; Fully Guaranteed



Skilled Knight engineering takes the latest developments of missile-age electronics, and distills them into a superb new high-fidelity instrument—a tuner that provides FM and FM stereo multiplex reception of remarkable clarity. The new KN-250M (with the same circuitry as used in the FM section of the Knight KN-310 all-in-one unit), has every desirable feature you need for flawless reception and micro-accurate tuning. Its circuit employs four RCA Nuvistors as RF amplifier, mixer, oscillator and AFC to give amazing sensitivity, lowest noise, and exceptional stability. The latest design IF and multiplex sections are *completely transistorized!* Advantages of Nuvistor-transistor design are enumerated at right.

## TREMENDOUS ADVANTAGES OF NUVISTORS AND TRANSISTORS IN FM CIRCUIT DESIGN

Nuvistors, these tiny new ceramic and metal tubes, make an important contribution to the splendid performance of the KN-250M. Exceptional signal-getting ability in weak-signal areas... unusually low noise figure permit operation at high gain for utmost sensitivity... and incredible low power drain. Transistors share two of these characteristics—small size and low power drain—and a extremely stable and heat-free—drifting of signal!

The KN-250M also includes a custom-quality, signal-strength meter that quickly tells you when you're on center-channel—you simply tune for peak strength indication; automatic frequency control (AFC) for locking-in the station of your choice; and much more. *Usable IHFM Sensitivity:* 2 microvolts for 30 db of quieting. *Distortion:* negligible at all listening levels. Metal case in dark brown textured finish, with polished brass panel. The KN-250M perfectly matches the KN-400B amplifier on following page. Made in U.S. For 110-120 v., 50-60 cycle AC. Shpg. wt., 7 1/2 lbs.

35 DU 817. No Money Down. ONLY.....139.95

35 DU 847. KN-250M FM Tuner, Less Multiplex. Wt., 7 lbs. ONLY.....99.95



## KN-260MC Tuner with Clock-Timer

- Same Nuvistor-Transistor Circuit as the KN-250M; Includes Clock-Timer
- Controls Music System Off-On Time



## TUNING METER

A luxury feature usually found on most expensive tuners. Just tune for maximum signal strength—get "on station".

For an extra measure of convenience, use the new KN-260MC tuner, instead of the KN-250M, with your stereo music system. Turns system on or off at pre-set times; regulates playing time; has easy-to-use control settings.

35 DU 853. Fully Described on Preceding Pages. ONLY.....154.50

ENJOY STEREO FM RECEPTION AT LOWEST COST

## GUARANTEED ONE YEAR

All Knight units, including new Nuvistorized-Transistorized components, are unconditional guaranteed for one full year.

**NO MONEY DOWN** and up to 24 months to pay.



**NEW**

*all-transistor amplifier for fabulous stereo sound!*

**KN  
400B**



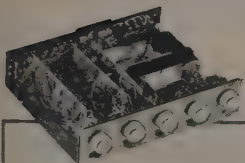
*a milestone in advanced, creative high-fidelity design*

## All-New, All-Transistor 40-Watt Stereo Amplifier

ONLY  
**\$99.50**

**NO MONEY  
DOWN**

- Gives You all the Advantages of Transistor Design—Compact Size, Cool Operation, No Hum or Noise
- Phenomenally High Gain (Amplification); Even Weak Signals Are Brought Up to Full 40-Watt Output!



### ELECTRONIC WIZARDRY; YEARS-AHEAD DESIGN

**Circuit Features** the use of 16 transistors, 2 temperature-compensating thermistors and 4 diode rectifiers. No tubes or output transformers are used.

**Missile-Age**, military-type terminal board wiring—the last word in reliability.

**Superb Sound** . . . that literally must be heard to be believed! Reproduces music in a way that is downright breathtaking!

**Absolutely Free** of heat, hum or microphonics.

**Lab and Field-Tested** by experts; unconditionally guaranteed for one full year.

Enjoy all the benefits that solid-state electronics design (no tubes are used in the KN-400B), brings to high-fidelity! A prime example of missile-age development, the KN-400B not only provides superlative audio reproduction, but it also features these major advantages: *no waiting for warm-up*—turn it on and you can start playing your records instantly; *virtually no hum or noise*—silken silence prevails between selections on records or during quiet passages; *cool operation*—can be run continuously for days, weeks, even months without getting hot; *extremely small power consumption*—consumes only 25 milliamps when operating at quiet levels, and no more than 1 amp at full output! Gives you unexcelled economy of operation and durability—the KN-400B is really built to last!

Another splendid advantage of its unique transistor design is fantastic stability—the KN-400B is immune to damage that might result if it is accidentally operated with no speaker connected to it. Develops no microphonics either—you can shake it, rap it, tap it—there's never any mechanical noise to mar sound quality. It employs semiconductor power supply for nearly perfect power regulation, while all other associated parts used in critical stages, are of premium quality. Beautifully matched to the advanced KN-250M and KN-260MC tuners described on previous pages, and when used with either of them, gives you a stereo music system of magnificent quality plus highly advanced, "ahead-of-all-others" design.

**IHFV Music Power Output:** 40 watts; 20 watts per channel, at less than 1% harmonic distortion. **Frequency Response:**  $\pm 1$  db, 20 to 20,000 cps at rated power. **Hum:** -90 db Tuner; -60 db Phono. Operates with hi-fi speakers of 4, 8 or 16 ohms impedance. For 105-120 v., 50-60 cycle AC. Metal case in dark brown textured finish; polished brass panel. Made in U.S.  $2\frac{3}{8} \times 9\frac{3}{4} \times 8"$ . Unconditionally guaranteed for one full year. Wt., 9 lbs.

**35 DU 814. No Money Down. ONLY.....99.50**

### HAS EVERY STEREO CONTROL

- Selector (Phono, Tuner, Tape, Aux 1, Aux 2).
- Bass boost and attenuate.
- Treble boost and attenuate.
- Balance control.
- Volume.
- Switch for Stereo, Mix, Monophonic. (Mix position parallels channels for best reproduction of monophonic records.)
- Switch for Low (Rumble) Filter.
- Switch for High (Scratch) Filter.
- Stereo Normal and Reverse. Also includes Tape Head inputs, Tape Output jacks, 1 convenience AC outlet.



**Lightweight,  
Ultra Compact**  
Small enough  
to install any-  
where; light  
enough for a  
child to carry!



**Develops  
No Heat**  
No ventilation  
required; put it  
where you like  
and forget  
about it!



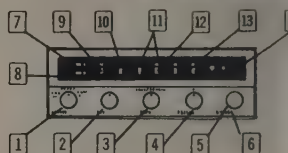
*Tremendous reserve power . . . plus the advantage of a velvet-silent preamp*

## Super-Power 100-Watt Deluxe Stereo Amplifier

**ONLY**  
**\$169<sup>95</sup>**  
**NO MONEY**  
**DOWN**

- Certified IHFM Music Power Rating of 100 Watts!
- New Silicon Transistor Preamp Section—Ultra-Quiet
- Hermetically-Sealed Silicon Rectifier Power Supply
- All Circuitry on Military-Type Terminal Boards

### ALL YOU'LL EVER NEED IN STEREO CONTROLS



1. One-knob Input Selector switch for choosing Aux, Tuner, Ceramic Phono, Magnetic Phono or Tape positions.
2. Bass controls.
3. Treble controls.
4. Stereo Balance control.
5. Dual Master Volume control—prevents overload and improves signal-to-noise ratio.
6. Pilot light Off-On indicator.

### SLIDE SWITCHES

7. Operating mode (Stereo-Mix or Monophonic).
8. Tape Monitor (Off, 1, 2).
9. Stereo Normal—Stereo Reverse
10. Rumble Filter.
11. Scratch Filter.
12. 2-Position Loudness Contour.
13. Dual Phasing switches.
14. Stereo Headphone jack.

### REAR PANEL INPUTS (PAIRS)

- Auxiliary (Channels A and B)
- Tuner
- NARTB Tape Head
- Magnetic Phono
- Crystal or Ceramic Phono
- Tape Monitor
- 2 Convenience AC Receptacles

Carefully engineered successor to our famous KN-775 stereo amplifier, the new KN-780 gives you all the clean power you will ever need—plus an up-to-the-minute, transistorized preamp section that is completely free of hum, noise and microphonics. It easily handles sustained music passages of great force, at lowest distortion . . . and a wide array of easy-to-use controls (see column at right), gives you the exact tonal shading you want from any stereo or monophonic source of music—records, tapes or radio broadcasts. Because of its extremely linear operation and outstanding reproduction of sound, the KN-780 actually qualifies for use as a recording amplifier in broadcast or studio applications.

It includes: provision for using an optional center-channel speaker for a third (mixed) channel of sound with no need for an extra amplifier—may also be used with an extension speaker for monophonic listening in another room. Has special headphone jack on front panel for private stereo listening. Tape monitor switch for monitoring your own stereo tape recordings as you record; rumble and scratch filters; other convenience features.

All signal circuitry is mounted on missile-age terminal boards, isolated and shielded from power circuits, to eliminate the possibility of hum pickup. Cool-running, sealed silicon rectifiers are employed in the power supply for extremely efficient power regulation and reliability. Four high-precision EL34 audio output tubes are used. And you get positive circuit-breaker protection—no fuses to replace, ever! **IHFM Power Output:** 100 watts; 50 watts per channel. Continuous sine wave power output, 80 watts. **Frequency Response (at rated output):**  $\pm 0.5$  db, 20 to 25,000 cps. **Distortion:** harmonic, less than 0.5% at rated output. **Hum & Noise:** —85 db at Tuner input; —55 db at Magnetic Phono input. **Output Impedances:** 4, 8 and 16 ohms each channel; plus center-channel output. Styled in embossed, dark brown textured metal case with polished brass, recessed panel. Matches the KN-125M on next page. Made in U.S.  $4\frac{1}{8} \times 16 \times 14$ ". For 110-120 v., 50-60 cycle AC. Shpg. wt., 38 lbs.

35 DU 820. No Money Down. ONLY. . . . . 169.95



**NEW**  
built-in  
**MULTIPLEX**

superb **STEREO FM** from a super-sensitive  
**FM-AM tuner with new NUVISTOR FM front end**

**KN**  
**125M**



a great performer with all the latest features  
**Deluxe Stereo Multiplex FM-AM Tuner**

ONLY  
**\$179.95**  
NO MONEY  
DOWN

- Wide-Band FM Section, with DSR for Greater Bandwidth, Provides Superior Stereo Multiplex FM Reception
- Instant Switching from Monophonic FM or AM Reception to FM Stereo; "Magic Eye" Tuning Indicators

### Striking New Design

A deluxe unit, the KN-125M features new Knight styling with recessed front panel in polished brass . . . and dark brown, textured metal case.

### FM NUVISTOR ADVANTAGES

The KN-125M employs a 6CW4 Nuvistor tube in the heart of its FM circuit. Developed by RCA, this tiny new tube plays a big part in the superlative performance of the KN-125M. It provides exceptional signal-receiving performance in fringe areas and other locations where signal levels are extremely weak . . . its signal power gain and noise factor are better than any other tube currently used in RF amplifier sections . . . it is very small in size and extremely reliable . . . and its metal-and-ceramic construction insure ruggedness plus stability.

### Front Panel MULTIPLEX Switch



Allows you to switch instantly from FM or AM reception to FM stereo multiplex operation.

### Two Tuning Eyes

Two highly effective cathode-ray indicators for precise FM and AM tuning.

Designed to perfectly match the KN-780 stereo amplifier in quality and styling, the improved KN-125M tuner with built-in multiplex circuit, gives you crystal-clear reception of any type of broadcast—FM, AM, or new multiplex stereo FM. Dynamic Sideband Regulation (DSR), a Knight-pioneered feature, not only provides complete mastery over FM signal quality, but also increases bandwidth—important for optimum reception of stereo FM broadcasts. FM section employs premium-type RCA Nuvistor for increased sensitivity, lower noise and extremely stable operation. AM section of the KN-125M features bandwidth switch for sharp or broad tuning (local or long-distance reception), 10-kc whistle filter, and excellent sensitivity. Both sections feature a separate "Magic Eye" cathode-ray tuning indicator, and separate flywheel weighted tuning knobs.

All controls of the KN-125M are designed for unsurpassed ease in achieving the quality of reception you want. DSR control is a simple slide switch that reduces modulation of FM carrier for unexcelled reception of any FM station, regardless of station transmitter control settings. AFC (automatic frequency control), locks in the FM station of your choice; selector switch for stereo or monophonic reception; and selector for FM or AM. Four cathode-follower outputs on rear panel (two equipped with level controls), permit placing the KN-125M up to 100 ft. away from the amplifier. **FM Section:** Tuned RF stage, 2 limiters, discriminator, DSR, AFC, standard 300-ohm antenna input, plus 50-ohm input (used with shielded coaxial cable in noisy or fringe areas). Usable sensitivity (IHF): 1.5 microvolts. **AM Section:** Tuned RF stage, 10-kc whistle filter, sensitivity of 4  $\mu$ v for 20 db signal-to-noise ratio. 12 tubes; 6CW4 Nuvistor; 2—6FG6/EM84 cathode-ray tuning indicators; EZ80 rectifier. Embossed, dark brown textured metal case; attractive, recessed, polished brass panel. Made in U.S. 4 $\frac{3}{4}$ x16x14". For 110-120 v., 50-60 cycle AC. Shpg. wt., 23 lbs. 35 DU 811. No Money Down. ONLY **\$179.95**

**MODEL KN-125M, LESS MULTIPLEX CIRCUIT.** Same fine tuner as above, less multiplex circuit (add the KN-MX multiplex adapter, described at beginning of this section, at your convenience). Shpg. wt., 21 lbs. 35 DU 845. No Money Down. ONLY **\$139.95**



*feature for feature, here's more for  
your stereo amplifier dollar . . .*

**NEW**



goes beautifully anywhere

*husky power output . . . wide-range response . . . luxury styling*

## New KN-755 Value-Plus 55-Watt Stereo Hi-Fi Amplifier

**ONLY  
\$99.95  
NO MONEY  
DOWN**

- Successor to the Famous KN-740B Amplifier
- New Knight Styling—Matches KN-136M Tuner on Following Page
- Highest-Quality Output Transformers and High-Power Output Tubes for Increased Low and High Frequencies

An exceptional unit that offers extremely clean sound, the new KN-755 stereo amplifier employs premium-quality components in a high-fidelity push-pull circuit to give you extra power with low distortion. Four advanced-design 6L6GC audio output tubes, plus massive output transformers, provide superb bass response and ultra-smooth treble at all levels of sound. Every basic control necessary for full enjoyment of both stereo or monophonic program material is included in its dual preamp section—DC on preamp tube filaments assures hum-free operation.

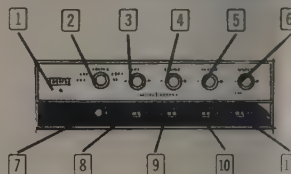
Its control flexibility is highlighted by the use of a stereo separation control that puts a continuously variable transition from stereo to monophonic reproduction at your fingertips. As the control is advanced, separation between channels is progressively decreased, producing the effect of increased "middle" in the stereo acoustic effect. You can actually range from monophonic to panoramic stereo sound! A master volume control adjusts listening level of both channels simultaneously—converts to contour loudness control at the flick of a switch.

Perfect stereo balance is easily obtained with the balance control, even where optimum speaker placement is impossible. Channel reversing control provides the correct orientation necessary for proper stereo effect. Rumble filter is included to eliminate low-frequency rumble that may be caused by record changer or turntable motor. Selector chooses any desired sound source—tape head, magnetic phono, ceramic phono, tuner or auxiliary. Physical appearance of the KN-755 perfectly matches the KN-136M on the following page—color styling is in the new dark brown shade, with polished brass panel and cast aluminum knobs.

**IHFMM Music Power Output:** 55 watts; 27½ watts per channel—continuous sine wave power, 45 watts. **Frequency Response:** ±1 db, 30 to 20,000 cps at rated power. **Distortion (at full rated output):** harmonic, less than 1%. **Hum & Noise:** 80 db below full rated output (Tuner); -55 db (Phono). **Output Impedances:** 4, 8 and 16 ohms each channel. **Tubes:** 4—6L6GC, 5—12AX7/ECC83; 5AS4A rectifier. Made in U.S. Size, 4¼x15¾x12". For 110-120 v., 50-60 cycle AC. Shpg. wt., 35 lbs.

35 DU 828. No Money Down. ONLY.....99.95

### HAS EVERY BASIC CONTROL FOR FULL STEREO PLEASURE



1. Large pilot light indicator.
2. Selector switch for instant choice of program material.
3. Master Bass control.
4. Single-knob Balance control.
5. Master Treble control.
6. Off-On/Master Volume control.
7. Unique Stereo Separation control.
8. Stereo-Monophonic switch.
9. Channel Reverse switch.
10. Rumble Filter.
11. Loudness-Contour Switch.





**NEW**  
built-in  
**MULTIPLEX**

*perfected STEREO FM everyone can afford!*

**KN**  
**136M**



*enjoy everything that radio broadcasting has to offer*

## Sensational KN-136M Stereo Multiplex FM-AM Tuner

### SIMPLIFIED STEREO SEPARATION CONTROL

For use during FM stereo multiplex broadcasts—continuously variable for best stereo listening effect—a top feature!

### BAR-TYPE TUNING EYE

A vivid beam of blue light that opens and closes to show you when you're "on station".

- Provides Highly Sensitive FM and AM Reception, Plus Latest Stereo FM Multiplex Reception
- New Stereo Separation Control for Razor-Sharp Separation Between FM Stereo Channels

ONLY  
**\$119.95**

With Multiplex  
**NO MONEY DOWN**

Right up-to-the-minute in timely design, the new KN-136M tuner gives you excellent reception of FM and AM broadcasts separately, plus clear reception of newest FM multiplex "stereocasts" with its efficient multiplex circuit! You'll appreciate its simplified control features too—controls that not only help you tune in the station of your choice right "on the button" with least effort, but that also let you regulate the acoustic effect of stereo FM broadcasts. Unique stereo separation control—permits you to widen the gap between FM stereo channels, or bring the channels closer together for blended, panoramic stereo sound. It's important for thoroughly enjoyable listening of stereo FM!

Other convenience controls include selector for choosing AM, FM, or FM stereo reception; separate flywheel-weighted tuning knobs that let you glide effortlessly across the dial with smoothness and accuracy; and slide switch for automatic frequency control (AFC). A desirable feature on any high-quality FM tuner, AFC locks in the station of your choice and prevents drifting. Electronic, bar-type tuning indicator aids in pinpointing the station of your choice—narrows to hairline width when you're "right on". Dial face includes calibrated, easy-to-read logging scale. The KN-136M also includes dual high-impedance outputs for stereo or monophonic tape recording of broadcast material directly from the tuner, a big "plus" for tape recording fans now that FM stereo is here.

Highly efficient, limiter-and-discriminator FM circuitry offers good noise rejection and sensitivity for clear reception of weak or distant FM stations; AM circuitry is also of excellent quality. *Usable FM Sensitivity (IHF):* 3 microvolts for 30 db of quieting. *AM Sensitivity:* 10 microvolts for 20 db signal-to-noise ratio. *FM Bandwidth:* 180 kc. *FM Response:*  $\pm 0.5$  db, 20 to 20,000 cps. *High-Impedance Outputs:* two for FM, two for AM. *Tubes (less multiplex circuit):* 12AT7, 3-6CB6, 6AU6, 6AB4, 6AL5, 6BE6, 6FG6 tuning eye; rectifier. Includes two 36" audio cables, built-in AM ferrite loopstick antenna and FM linecord antenna. Metal case in dark brown textured finish; polished brass panel.  $4\frac{3}{8} \times 11\frac{3}{4} \times 10\frac{1}{4}$ ". Made in U.S. For 110-120 v., 50-60 cycle AC. Shpg. wt., 11 lbs.

35 DU 815. *No Money Down.* ONLY.....**119.95**

35 DU 846. Same tuner as above, less multiplex circuit (KN-MX multiplex adapter may be added at your convenience). 10 lbs. ONLY.....**84.50**

Depend on Knight for the Newest Innovations in Hi-Fi

**Money-Back Guarantee.** For your complete protection, on all Knight hi-fi units.

**NO MONEY DOWN...** and up to 24 months to pay, with Allied's new Credit Fund Plan.

### PERFECTLY MATCHED PAIR

Both the KN-136M and KN-755 on opposite page, are perfectly matched in appearance. Use them to form the nucleus of a splendid stereo music system!





our new tuner triumph . . .

for brilliant FM and stereo FM reception

**NEW  
MULTIPLEX  
STEREO**



features wide-band FM circuitry for superior reception

## Super-Sensitive Multiplex Stereo FM Tuner

ONLY

**\$149<sup>50</sup>**

**NO MONEY  
DOWN**

- Now With Built-In Stereo FM Multiplex Circuit
- Includes Famed DSR Corrective Feedback Circuit
- Visual Indicator Shows You When Stations Are Broadcasting Stereo Multiplex FM

The tuner that gives you unparalleled FM and FM stereo broadcast reception, equal to the premium quality of broadcast station monitor tuners, at moderate cost. Designed to be "stereo ready" over one year ago, it now includes a new, built-in multiplex circuit to complement its truly superior FM circuitry. The KN-150M features a panel light indicator that immediately tells you when an FM station is broadcasting a multiplex stereo signal. And another feature of major importance is its volume/matrix control, which acts as a stereo "blend" control during FM multiplex transmission—gives you the best stereo acoustic effect in your own home.

Knight-pioneered Dynamic Sideband Regulation (DSR), makes a notable contribution to the superb quality of stereo signal reception, thanks to its wideband design. It also eliminates distortion caused by weak signals or over-modulation at the station, regardless of station transmitter settings.

Silencing control permits noise-free tuning between stations by shutting off the audio portion of the circuit. There's no annoying noise, hiss or roaring between stations. Sensitive automatic frequency control (AFC), locks in the station of your choice for perfect reception, while a bar-type tuning eye indicator aids you in getting "right on" station.

The KN-150M displays remarkable ability in pulling in weak-signal FM stations—optimum sensitivity is provided by its low-noise, cascode front end. Other circuit features include an improved discriminator coil design for lowest distortion and cleanest FM signal, plus individual sweep-alignment at the factory to assure performance equal to the laboratory-engineered model.

Physical appearance matches the KN-780 amplifier with metal case styled in dark brown textured finish, and front panel in polished brass. *Usable IHFM Sensitivity:* 1.0  $\mu$ v with DSR; 2.0  $\mu$ v without DSR, for 30 db of quieting. *Harmonic Distortion:* unmeasurable at normal modulation levels (below residual noise). *IM Distortion:* less than 0.25% for signal levels over 10 microvolts. *Noise:* -58 db for signals over 6 microvolts. *Discriminator:* effective 0.8 megacycle with DSR. *3 Outputs:* Controlled, Fixed, Multiplex. 12 tubes; EM84 tuning eye; EZ80 rectifier. Made in U.S. Size, 4 $\frac{1}{2}$ x16x12 $\frac{1}{2}$ ". For 110-120 v., 50-60 cycle A.C. Shpg. wt., 21 lbs. 35 DU 819. No Money Down. ONLY **\$149.50**

**AUTOMATICALLY** turns on a front-panel indicator light to show you when an FM station is "stereocasting".

**AUTOMATICALLY** eliminates distortion caused by weak signals or over-modulation at the station, with its remarkable DSR circuitry.

**AUTOMATICALLY** eliminates annoying noise, hiss and roaring between stations when you are tuning across the dial, by shutting off the audio portion of the circuit in the absence of a signal. You get total silence until you're "on station".

**AUTOMATICALLY** locks on the station of your choice with extremely sensitive, automatic frequency control action. An electronic "servant" that literally takes command and instantly provides drift-free tuning.

### PLUG-IN MULTIPLEX ADAPTER FOR OWNERS OF ORIGINAL KNIGHT MODEL KN-150 FM TUNERS



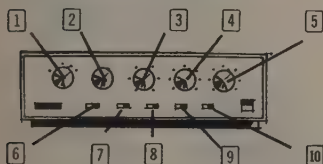
**ONLY \$32<sup>50</sup>** Here's the multiplex adapter we promised you! Simple plug-in installation—fits in chassis space provided. Wt., 4 lbs. 35 DX 810. ONLY... **32.50**



**NEW***here's the new standard of stereo amplifier value!***KN  
735***use it as the "heart" of a low-cost stereo home music system*

## Our "Big Buy" KN-735 40-Watt Stereo Amplifier

### COMPLETE STEREO CONTROL FACILITIES



1. 5-position Input Selector switch.
2. Balance control for regulating sound for best stereo where speakers are not equally placed.
3. Loudness (used with Contour switch for tonal balance at moderate and low listening levels).
4. Bass, continuously variable.
5. Treble, continuously variable.
6. Lo-Filter switch for reducing turntable rumble with no loss of bass.
7. Hi-Filter switch for reducing noise on old or worn records, etc.
8. Phono switch with Stereo and Monophonic positions.
9. Stereo Normal and Reverse.
10. Contour (see Loudness above).

### ONE-YEAR GUARANTEE

Knight high-fidelity units are not only lower in cost than comparable components, but are also **unconditionally guaranteed for one full year!**

### NO MONEY DOWN

Our new Credit Fund Plan lets you get the hi-fi equipment you want now, with no money down. Gives you up to 50% more buying power!

- Convenient, Easy-to-Operate Controls
- All the Inputs You'll Need for Any Source of Music
- DC on Preamp Tube Filaments for Hum-Free Operation
- Two Tape Recorder Outputs for "Off-the-Air" Stereo Tape Recordings; Also Includes Tape Head Inputs

**ONLY  
\$79<sup>95</sup>****NO MONEY  
DOWN**

A first-rate amplifier offering full facilities for any stereo or monophonic music source and plenty of power for rich, impressive high-fidelity sound. The 40-watt output of the KN-735 is more than adequate for any speaker system, even low-efficiency types. You get all the controls you need for regulating sound easily and precisely, and a circuit that features wide frequency response with excellent hi-fi specifications. Hum is reduced to inaudible levels by DC-operated preamp tube filaments. A particularly fine choice for the economy home music system.

Complete control facilities of the dual preamp sections in the KN-735 include an input paralleling switch that gives you instant switching from stereo operation to 40-watt monophonic operation. Wide-range balance control provides exciting stereo sound in any room, even where one of your speakers cannot be placed for optimum stereo effect. Loudness/contour switch provides correct tonal balance when listening at low volume levels. And with the present trend to stereo tapes as a popular source of music, the KN-735 not only has tape recorder outputs for making tape recordings of FM stereo broadcasts, but it also features tape head inputs to permit you to play recorded stereo tapes directly from the heads on a tape deck.

**IHF Music Power Output:** 40 watts; 20 watts per channel. Continuous sine wave output, 28 watts. **Response:**  $\pm 1$  db, 30 to 18,000 cps at rated power. **Hum & Noise:** 75 db below full output on tuner input; 55 db on magnetic phono input. **Distortion:** harmonic, 1% at rated output. **Inputs (5 pairs):** NARTB Tape Head; Magnetic Phono; Ceramic (or Crystal) Phono; Tuner; and Auxiliary. **Output Impedances:** 4, 8 and 16 ohms; high-impedance for tape recorder. Employs four 6V6GT audio output tubes.

The new KN-735 is handsomely color-styled in dark brown textured metal case, with ventilated top to allow free circulation of air. Front panel is polished brass, with cast aluminum gold knobs having milled edges. Size,  $4\frac{3}{4} \times 13\frac{3}{4} \times 9\frac{1}{4}$ ". Made in U.S. For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 15 lbs.

35 DU 829. No Money Down. **ONLY**.....**79.95**

Get the Most for Your Hi-Fi Dollar with Knight Components



**compact FM tuner with  
tuning eye, automatic frequency control**

**TUNES FM STEREO  
WITH KNIGHT MX  
MULTIPLEX  
ADAPTER**



*small in size, beautifully styled . . . fits anywhere*

No other tuner like it at this price, with these features

ONLY

**\$49<sup>95</sup>**

**NO MONEY  
DOWN**

## Improved Version of Our Most Popular FM Tuner

- Beautiful New Decorator Styling; Tried-and-True Circuit
- Has Two Important "On-Station" Tuning Aids—Automatic Frequency Control and Bar-Type Tuning Indicator
- Multiplex Output Jack; Takes Knight Multiplex Adapter

First and foremost, the new KN-141C tuner provides sparkling clear reception of FM broadcasts . . . and secondly, it can be used to receive stereo FM multiplex broadcasts, with the optional Knight KN-MX multiplex adapter listed below. No other small FM tuner at anywhere near the KN-141C's modest price gives you these, and such "extra" features as automatic frequency control (AFC) for locking-in the FM station of your choice; plus latest cathode-ray tuning indicator, to help you get "on station" tuning. By any comparison, the KN-141C is a magnificent value that soon pays for itself in listening pleasure!

It plays beautifully through hi-fi systems, TV sets, tape recorders, phonographs and similar units having input jacks. Employs a built-in line cord antenna—has provision for adding external antenna for an extra measure of sensitivity. Its new styling goes with anything too! You can use it anywhere you would ordinarily place a book—on desk or table top, shelf, mantel, etc. Its metal case now features textured, dark brown finish, with front panel in gleaming brass. Flywheel weighted tuning knob gives you a smooth "feel" as you tune across the dial. Has calibrated logging scale to help you locate the station of your choice. Bar-type 6FG6 tuning "eye" indicator narrows to hairline width when you're "on station".

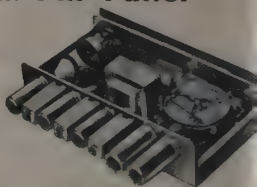
High-fidelity circuit features 2-stage, grounded-grid RF amplifier and ratio detector. *Usable Sensitivity (IHFAM):* 4.0 microvolts for 30 db of quieting. *Audio Output:* approximately 0.5 volt. *Hum & Noise:* —40 db. Controls: Tuning; Off-On-AFC. 3 Outputs: Amplifier; Tape Recorder; Multiplex. Only 2½" high, 9¾" wide, 8" deep. Made in U.S. For 110-120 v., 50-60 cycle AC. Shpg. wt., 7½ lbs.

35 DU 802. No Money Down. ONLY.....**49.95**

### KNIGHT MULTIPLEX STEREO FM ADAPTER

**MODEL KN-MX.** Here's an excellent way to get stereo FM reception at lowest cost! Use the new KN-MX multiplex Adapter (illustrated at left; fully described at beginning of this section), with the KN-141C tuner above. With cables, instructions. 6 lbs.

35 DX 809. No Money Down. ONLY.....**44.50**



### Neat, Functional Design— Space-Saving Parts Layout

Interior view of the KN-141C clearly demonstrates its remarkably compact design. Actually has the look and feel of a fine camera!



### Cathode-Ray Tuning Eye

The KN-141C employs bar-type 6FG6 tuning eye tube to help you get precise "on station" when tuning.

### Automatic Frequency Control

As you dial near the "edge" of the station you wish to hear, AFC literally takes command and tunes in the static right on the button . . . prevents drift . . . and keeps the station "locked in"—no need to retune.

### FULL 1-YEAR GUARANTEE

For your complete protection. Allied's own Knight products are fully guaranteed for one year.

### NO MONEY DOWN

. . . and up to 24 months to pay on our new Credit Fund Plan. Gives you 50% more buying power.



exclusive Allied values in high-fidelity amplifiers

**NEW**



ONLY  
**\$54.95**

**NO MONEY  
DOWN**

- 12-Watt Per Channel IHFM Music Power Output
- Accommodates All the Standard Sources of Music, Including Tape Head Inputs
- Separate Bass and Treble Controls on Each Channel

A solid value at an unusually moderate price, the new Knight KN-724 24-watt stereo amplifier is heartily recommended for economy stereo home music systems. It accommodates any of the ordinary sources of stereo sound—has paired inputs for magnetic, crystal or ceramic phono cartridge; tuner; tape (high-impedance); or auxiliary equipment—and gives you the essential control features. By flicking a switch (to parallel both channels), you go from full 12-watt-per-channel stereo output, to 24-watt single-channel monophonic operation. Separate bass and treble controls for each channel let you make tonal adjustments to suit your listening pleasure, with ease and accuracy.

## Super-Buy KN-724 24-Watt Stereo Amplifier

Fast and simple channel balancing is accomplished with a conveniently located, front-panel control; compensates for the position of your speakers and room acoustics to provide best stereo effect. The KN-724 employs four 6BQ5 output tubes in push-pull circuitry for distortion-free audio reproduction. Briefly, it gives you much more than you ever thought it was possible to design into a stereo amplifier at this low a price!

**IHFM Music Power Output:** 24 watts; 12 watts per channel. **Continuous Sine Wave Power:** 20 watts. **Response:**  $\pm 1$  db, 30 to 15,000 cps at rated power. **Distortion:** harmonic, 2% or less at rated power. **Hum & Noise:** -72 db; magnetic input, -52 db. **Output Impedances:** 4, 8 and 16 ohms each channel; high-impedance output for tape units. Metal case color-styled in dark brown textured finish; polished brass panel. Made in U.S.  $4\frac{1}{4} \times 13 \times 9$ ". For 110-120 v., 60 cycle AC. Shpg. wt., 21 lbs. **35 DU 844. No Money Down. ONLY. . . . . \$49.95**



ONLY  
**\$39.95**

**NO MONEY  
DOWN**

- Styled to Match the KN-141C Tuner
- Professional Hi-Fi Specifications
- Offers Flat Response, Low Distortion
- A "Best Buy" for Monophonic Systems

Can't stop makin' 'em! Our new version of what must be one of the most popular 12-watt monophonic amplifiers in the country today. Thousands of earlier models are still in use . . . a splendid tribute to its quality and dependability. No finer choice for a budget-priced monophonic music system, the KN-611C gives you improved hi-fi specifications, plus new color styling in dark brown textured case, and polished brass panel.

## Top-Performance 12-Watt Monophonic Amplifier

Has inputs for NARTB-equalized tape head playback; FM or FM-AM radio tuner; magnetic, crystal or ceramic phono cartridge. Separate bass and treble controls. **IHFM Music Power Output:** 12 watts; continuous output, 10 watts. **Distortion (at rated output):** harmonic, less than 2%. **Response:**  $\pm 1$  db, 30 to 15,000 cps. **Hum and Noise:** -70 db; magnetic input, 52 db. **Controls:** Selector (Aux. Tuner, NARTB Tape, RIAA Phono, Crystal Phono); Volume; Bass; Treble. **Output Imp.:** 4, 8 and 16 ohms; high imp. for tape recorder. Employs two 6EL84/6BQ5 output tubes. Made in U.S.  $4 \times 11 \times 7\frac{1}{2}$ ". For 110-120 v., 60 cycle AC. Shpg. wt., 10 lbs. **35 DX 830. No Money Down. ONLY. . . . . \$39.95**

Compare Specifications and You'll Agree That Knight Hi-Fi Units Are Better By Far



# KNIGHT

## Supreme Value Hi-Fi Speakers

### MODEL FOR MODEL, YOU ALWAYS GET MORE FOR YOUR MONEY

**Famous for Smooth, Natural Sound...** For music reproduction that will please you for years to come. There is a Knight speaker for you, in a price range you can afford, that is unquestionably better than any other speaker for the money. Compare for yourself and see why so many thousands of Knight high-fidelity speakers are in use throughout the world today.

**Tested for Acoustical Superiority.** Built by skilled American and British craftsmen, Knight hi-fi speakers are made with the finest equipment available. They are thoroughly tested in laboratories and given listening tests under simulated home conditions, to doubly assure you of superlative quality and outstanding performance. We make sure they live up to specification.

#### There's a "Best Buy" Knight Speaker in Every Price Range, for Any Budget

**KN-819**


**8" DELUXE**  
\$18.95

See Page 22

**KN-900**

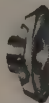

**8" ECONOMY**  
\$9.95

See Page 21

**KN-1200**


**12" ECONOMY**  
\$27.95

See Below

**KN-820**


**12" BUDGET**  
\$16.95

See Page 21

**KN-850**


**12" 3-WAY DELUXE**  
\$79.50

See Page 22

**KN-800A**


**12" 3-WAY**  
\$44.95

See Page 19

**KN-600HC**


**12" COAX HIGH-COMPLIANCE**  
\$64.50

See Page 20

**KN-815A**


**15" DELUXE**  
\$89.95

See Page 22

#### COMPLETE SELECTION OF MATCHING ENCLOSURES

You'll find a splendid array of acoustically matched enclosures for Knight speakers on the following pages. Enclosures that will not only fit in beautifully with your home furnishing scheme, but that also bring out the best in your Knight speaker. All furniture styles are listed, including period designs.

#### EASY-TO-INSTALL FEATURES

All Knight speakers have 4 standard-spaced holes for mounting studs, plus binding posts for connecting leads to amplifier—no soldering is necessary. Enclosures include studs.



#### UNCONDITIONAL ONE-YEAR GUARANTEE

All parts, workmanship and performance specifications of Knight speakers are unconditionally guaranteed for one full year from date of purchase.

#### ALLIED EXCLUSIVES

Knight hi-fi speakers sold exclusively by Allied. Carefully engineered to rigid specifications, they give you more in overall quality, dependability, and are unconditionally guaranteed.

#### BUY ON EASIEST TERMS

You don't need ready cash to start enjoying any of the Knight speakers in this catalog. Use our liberal Credit Fund Plan—no money down.



### Spectacular New Economy 12" Coax Speaker

**ONLY**  
**\$27.95**

**NO MONEY DOWN**

**NEVER BEFORE SUCH QUALITY AT THIS LOW A PRICE!** Employs the Same Massive Cast Metal Frame as Our Famous KN-600HC Speaker • 12" Woofer Cone with Cloth Suspension and Mid-Range Propagator Cone for Superb Sound in Any Enclosure • Double-Power 1-lb., 6-oz. Indox Ceramic Magnet

Designed without compromise to give you the most for your money... to give you deep bass sound without distortion, and clean highs without shrillness.

The new KN-1200 has many of the features and specifications of speakers costing up to twice its modest price: heavy cast frame to keep speaker cone and delicate voice coil in perfectly centered position; two cones to divide the sound into best bass response and most efficient high-frequency response; ring-type Indox magnet for lowest distortion; and much more.

Edgewise-wound, 2" aluminum ribbon voice coil is precisely made and wound on fiberglass coil form into a rigid assembly that maintains its shape for the life of the speaker—there's no interaction of elements to cause distortion.

**Overall Response:** 40 to 14,000 cps for excellent reproduction across the audio range. **Capacity:** safely handles 30 watts of program power. **Flux Density:** 10.0 gauss. **Free Air Resonance:** cps. **Imp.:** 16 ohms. **Depth:** 7 1/2" **Made in U.S.** 13 1/2 lbs. **35 DX 803. ONLY..... 27.95**

**KN**  
**1200**

Massive Cast Frame;  
2-Cone Construction

Exclusive Knight Hi-Fi Speakers Are Featured in Allied Music Systems



# Thrill to Sound from This Universal Hi-Fi Favorite

## WORLD-FAMOUS STANDARD OF HI-FI SPEAKER PERFORMANCE

- Reliable, Tried-and-Proven Design
- Balanced Bass, Mid-Range, Treble
- Unusually Efficient—Works Well in Any Enclosure, With Any Amplifier
- Carefully Made Under Rigid Quality-Controlled Conditions

## 3-ELEMENT, WIDE-RANGE DESIGN FOR LOW-DISTORTION COVERAGE OF THE ENTIRE AUDIBLE RANGE



**WOOFER**  
12" bass cone provides rich, full "lows".



**MID-RANGE**  
Special axial radiator adds "presence".



**TWEETER**  
Separate driver and horn for "highs".

**RIGID CAST FRAME.** Maintains structural stability for permanent, exact alignment of all moving parts.



## Knight KN-800A 3-Way, 12" Speaker—Best at the Price

ONLY  
**\$44.95**

**NO MONEY DOWN**

Acknowledged throughout the world of high-fidelity for its efficient and unusually dependable performance, the sound you'll get from the KN-800A's outstanding 3-way design cannot be surpassed by any other speaker of this type, in this price range. Acclaimed for its "fidelity-plus", it gives you splendid reproduction in any enclosure—horn, reflex or shelf types—and works beautifully with any amplifier, even low-power units.

Separate sound-radiating elements of the KN-800A—a full 12" bass cone, axially mounted mid-range cone, and diffraction-horn tweeter—have two crossovers for nearly distortionless reproduction. Mechanical crossover at 2000 cps, separates bass and mid-range elements; capacitor-type crossover provides smooth transition at 3500 cps, from mid-range to high frequencies. As a result, the sound you hear from the KN-800A is a near-perfect blend, without annoying breaks between audio ranges. Use a pair of these outstanding speakers for brilliant sound in stereo systems.

Bass and mid-range cones are driven by a special-design, 1½ lb. ceramic magnet. Highly-efficient magnet develops a powerful, concentrated flux to provide rich, remarkably distinct bass reproduction. Smooth-operating level control, attached to tweeter on a 36" cable, permits adjusting high-frequency brilliance to suit personal tastes or to match room acoustics; has calibrated dial and control knob. Binding terminals are provided on the frame of the KN-800A to simplify installation of leads to amplifier terminals. Rigid cast frame maintains permanent, exact alignment of voice coil through its structural stability.

All specifications of the KN-800A are conservative and laboratory-verified; each KN-800A is made under carefully controlled conditions for uniform quality. *Free Air Resonance:* 50 cycles. *Power Capacity:* can safely handle up to 25 watts of program material without damage to voice coil. *Response:* from 35 to 15,000 cps. Impedance, 16 ohms. Depth, 8". Made in U.S. Wt., 12 lbs. 35 DX 754. **No Money Down. ONLY.....44.95**

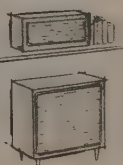
## ENJOY THESE ADVANTAGES!

- UNCONDITIONAL 1-YEAR GUARANTEE
- BINDING POST TERMINALS
- LIBERAL CREDIT FUND PLAN

You Get More . . . with Knight speakers. You get the superb craftsmanship and lab-tested quality of all Knight products . . . you get the meaningful extras that distinguish these exceptional units from all other speakers.

## MATCHED TO KNIGHT SPEAKER ENCLOSURES

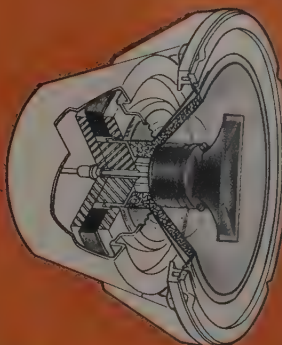
For optimum acoustic performance from the Knight speaker of your choice, install it in one of the many attractive Knight speaker enclosures listed elsewhere in this section. These enclosures employ only accepted hi-fi internal designs for splendid audio reproduction. And they look as good as they sound!



Enjoy Solid, Extra-low Bass with this Famous  
"Powerhouse of Sound"

**A UNIQUE INNOVATION IN SPEAKERS,  
UNSURPASSED IN QUALITY AT ITS PRICE**

**COMPARE THESE GREAT "OUT-AHEAD" FEATURES:**



**1/2" THICK RIGID  
POLYFOAM CONE**  
No other like it in  
hi-fi speaker design!

**4.6-LB. MAGNET**  
For high power capa-  
city and superior  
damping.

**EFFICIENT  
TWEETER**  
Compression-type,  
rectangular horn.

**HEAVY CAST  
FRAME**  
Massive, one-piece  
cast alloy frame.



A Marvel of  
Ingenious  
Acoustic  
Design

## Knight KN-600HC 12" High-Compliance Coaxial Speaker

**DELIVERS THAT EXTRA MEASURE OF BASS RESPONSE IN ANY ENCLOSURE**

**ONLY  
\$64.50  
NO MONEY  
DOWN**

Convincing evidence of superior Knight design, the KN-600HC is well beyond imitation—there's no other speaker like it. Features a 1/2"-thick, cellular poly-styrene woofer cone for deep, authentic bass response in any enclosure. Size of enclosure and type of loading are not critical with the KN-600HC. Its unique design and low resonant frequency give you true bass in any baffle.

The unique, polyfoam cone itself is so rigid it can actually support a man's weight—yet by itself it weighs little more than one ounce! Its woven suspension is impregnated with a damping compound to provide high compliance and to permit the cone to follow electrical pulses from the amplifier accurately, and with excellent recovery. This extremely flexible "travel" of the cone is an important factor in the ability of the KN-600HC to produce "lows" of such unexcelled fidelity. Reproduction of high frequencies is accounted for by an axially mounted tweeter.

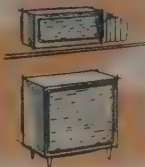
A compression-type unit with rectangular diffraction horn, the tweeter distributes crystal-clear highs over a wide listening area. Unusually realistic "presence" is achieved through careful matching of these low and high-frequency elements. Built-in electrical crossover network divides the sound into optimum low and high ranges. Calibrated brilliance control on 36" cable adjusts tweeter to match room acoustics. Extra-heavy 4.6-lb. ceramic magnet offers high power handling capacity and excellent damping. Precision voice coil is carefully made of copper ribbon. Massive, cast alloy frame of the KN-600HC maintains perfect alignment of the voice coil and other moving elements. In effect, the KN-600HC is 30 pounds of ingenious engineering concentrated in a truly capable, rugged speaker.

*Free Air Resonance:* 25 cycles. *Power Capacity:* can safely take up to 50 watts without damage to cone or voice coil. *Overall Response:* 25 to 18,000 cycles. Imp., 8 ohms. Depth, 9 1/2". Made in U.S. Wt., 27 lbs.

**35 DU 755. No Money Down. ONLY.....64.50**

### GET ALL THESE EXTRAS:

**A full 1-year guarantee. For Your Complete Protection.**  
**Binding post terminals. For Quick Hookup to Amplifier.**  
**Credit fund. For Increasing Your "Buy" Power.**



### SENSATIONAL BASS IN ANY ENCLOSURE!

The KN-600HC is our "Big One"—the speaker to choose if you like all the deep, extra-low bass sound you can get. Suitable for use in even the most compact of "infinite baffle" enclosures, it will give you peak performance in virtually any enclosure. Highly recommended for use in pairs for breathtaking stereo sound; unqualifiedly recommended for authentic bass.



# More for Your Money in a Budget-Priced 12" Speaker

COMPARE THESE FEATURES AT THIS LOW PRICE

ONLY  
\$16.95

Ceramic Magnet • Dual-Cone Design with Woofer for Maximum Bass, Smaller Cone for Clear Mid-Range and Treble • Die-Cast Frame • Edge-Wound 2", Copper Ribbon Voice Coil • Shallow Construction for Custom Mounting



## Knight Low-Cost 12" Dual-Cone Speaker

Get the most for your hi-fi dollar with this magnificent bargain! The KN-820 dual-cone, 12" hi-fi speaker is priced so low, you can buy two of these excellent speakers for less than you would pay for most single speakers of comparable quality. It's loaded with features you would ordinarily find on much more expensive speakers; it is carefully made to Allied's exact specifications.

Employs two cones for richer sound; large cone for full, smooth bass and smaller cone for efficient reproduction of mid-range and high-frequency sounds. Shallow frame design of the KN-820 (only 4" in depth), permits it to be easily custom-mounted in walls, cabinets, consoles, etc.

Other "big speaker" features include: edgewise-wound, copper ribbon voice coil; perfectly molded, durable fiber-glass coil form; voice coil assembly sealed against dust; ring-type ceramic magnet weighing 12 full ounces; rigid, die-cast zinc frame for permanent centering of all sound-reproducing elements. Has built-in mechanical crossover at 4500 cps.

*Overall Response:* 40 to 13,000 cps. *Power Handling Capacity:* 25 watts of program material. *Resonance:* 50-65 cycles. *Flux Density:* 10,500 gauss. Impedance, 8 ohms. Depth, 4". Has binding post terminals for quick connection to amplifier. Made in U.S. Wt., 6 lbs.

35 DX 756. ONLY... 16.95



Ring-Type Ceramic Magnet for Efficient Concentration of Flux Density in Speaker Air Gap, Low Leakage and Great Strength. A deluxe feature!



## High-Frequency Package

For converting any single-cone speaker into a highly efficient, 2-way speaker system. Provides clean, wide-range response from 3000 to beyond 18,000 cycles.



H-F Unit



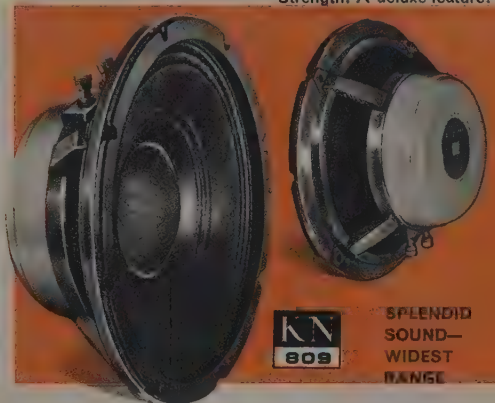
Crossover with L-Pad

## Tweeter, Crossover and L-Pad Combination

ONLY  
\$17.95

No finer, easier way to add "highs" to your present single-cone speaker system. Quickly installed in any enclosure, the KN tweeter package offers superior performance, backed up by certified, lab-tested specifications. Components include: VHF tweeter, L-C type crossover network in sealed housing, and integral L-pad level control. Tweeter employs a flanged, cast exponential horn with diffraction principle to achieve wide dispersion of highs. Its generous 6-oz. magnet and efficient design permit unusually high output free of distortion. Can be mounted inside your cabinet, or placed atop cabinet. Level control lets you adjust treble response to suit personal listening tastes and room acoustics. *Response:* 3000 to 18,000 cps. *Crossover Point:* 3500 cps. *Dispersion:* 180°. *Power Capacity* (in conjunction with woofer): 25 watts. Impedance, 8 or 16 ohms. Made in U.S. Wt., 3 lbs.

35 DX 762. ONLY... 17.95



SPLENDID  
SOUND—  
WIDEST  
RANGE

## New Knight Full-Range 8" Speaker

ONLY  
\$9.95

Incomparable Craftsmanship and Specifications • Absolutely Unbeatable for Replacement Use in TV Sets, Phonos, Radios • Binding Post Terminals; Die-Cast Frame

Our new wide-range 8" speaker with 10-oz. ceramic magnet, rigid die-cast frame, and soft-suspension, hyperbolic woofer cone. Designed to give you astonishing fidelity at lowest cost, the KN-809 provides mellow bass reproduction and clear mid-range and highs without shrillness. Use it for low-cost music systems; as an extension speaker; or as a high-quality replacement speaker in radios, TV sets, phonographs, etc. Its small size makes it ideal for use in a wide variety of space-saving enclosures. *Response:* 50 to 12,000 cps. Handles 15 watts of program power. Imp., 8 ohms. Depth, 3 5/16". Made in U.S. Wt., 3 lbs.

35 DX 821. ONLY... 9.95

Enjoy the Best in Music Components for Less, With Knight Hi-Fi Products



# KNIGHT

## Deluxe 12" & 15" Speakers—the Ultimate in Sound

**SUPREME QUALITY in  
ADVANCED ACOUSTIC DESIGN**

**NONE FINER AT THE PRICE!**



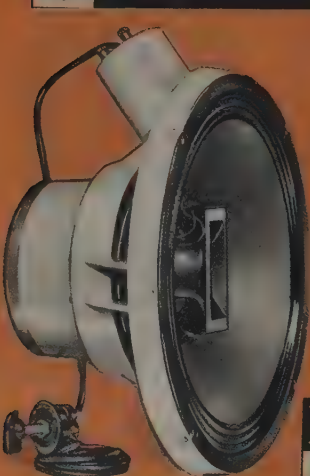
**TWEETER** Compress ion-type tweeter with phase-correction chamber for clear highs that extend 30,000 cps and beyond.



**Magnet** Massive magnet structures assure high concentration of magnetic flux in voice coil gap for distortion free sound.



**WOOFER** cone with specially treated, resilient edge has virtually free-cone suspension.



**KN  
850**



**KN  
815A**

**Built-to-Order for Allied in Great Britain**

**SPECIFICATIONS**

AS LOW AS

**\$79.50**

**NO MONEY  
DOWN**

You can actually *sense* the superiority of these outstanding speakers just by looking at the illustrations above. Precisely built by British craftsmen to Allied's rigid specifications, each of these deluxe speakers employs three elements for sparkling reproduction of sound with phenomenal realism and clarity. Vacuum-formed woofer cone with chemically treated edge-suspension for ultra-smooth bass; mid-frequency radiator cone mounted in center of woofer for mid-range sound so important to overall audio effect; and tweeter with rectangular exponential horn for wide-angle dispersion of silk-smooth highs. Crossover networks are dual-coil, dual-capacitor type, with high-frequency level control on 72" cable; are mounted directly onto rigid, die-cast frame. Massive magnet structures assure high concentration of magnetic flux in voice coil gap for authentic reproduction of even the most powerful bass passages. Aluminum voice coils are used in both speakers. Impedance, 16 ohms. Wt., 36 lbs.

35 DU 757. Model KN-850 12" Speaker. No Money Down. ONLY . . . . 79.50

35 DU 758. Model KN-815A 15" Speaker. No Money Down. ONLY . . . . 89.95

**KN-850 12" SPEAKER:**

Free Air Resonance: 35 cycles.

Overall Response: 30 to 20,000 cps.

Magnet Weight: 5-lb. cylindrical.

Magnet Material: "Magloy-X," developed in England.

Total Flux: Over 200,000 maxwells.

Capacity: 50 watts program material.

**KN-815A 15" SPEAKER:**

Free Air Resonance: 25 cycles

Overall Response: 25 to 20,000 cps.

Magnet Weight: 6½ lbs.

Magnet Material: Alcomax III.

Total Flux: 227,000 maxwells.

Capacity: 50 watts program material.

**New Deluxe 8" Coax Speaker—Finest of Its Size!**

ONLY

**\$18.95**

**NO MONEY  
DOWN**

**CHECK THESE SUPERIOR FEATURES:** Consists of Two Completely Independent Speakers, 8" Woofer and Direct-Radiator 3" Tweeter • Exclusive Cast Metal Frame • Large 10-oz. Ceramic Magnet Assures Highest Efficiency • Precision Knight Workmanship Throughout • Binding Post Terminals

Made to give you maximum value in a speaker of this size, the new KN-819 features the same high-quality design reserved for the finest of audio products. A true coaxial speaker, it features electrically and acoustically independent woofer and tweeter units. Its specially designed 8" woofer cone gives you unusually powerful bass response in any enclosure—its direct-radiator tweeter delivers mid-range and highs of outstanding clarity. Though moderately priced, it offers superb performance.

Its 10-oz. magnet assures highest efficiency and bass response free of distortion. Made to last longer, the KN-819 employs an exclusive, solid cast metal frame designed to keep the voice coil and coaxial elements perfectly centered. Built-in, capacitor-type crossover network, with crossover point at 3000 cycles. Response: 50 to 14,000 cps. Safely handles up to 15 watts of program power. Imp., 16 ohms. Depth, 3½". Made in U.S. Shpg. wt., 4 lbs.

35 DX 822. ONLY . . . . . 18.95



**KN  
819**

22

**ONE-YEAR GUARANTEE • AVAILABLE ON EASY TERMS**



## Knight Professional Stereo Headset

**FOR LUXURIOUS LISTENING,  
FOR MONITORING USE**

**ONLY  
\$19.95**

**NO MONEY  
DOWN**

**Stereo headphone listening in complete privacy—a fabulous new adventure in music reproduction you're sure to enjoy!**



**For Superb Private  
Listening and Studio  
or Control Room Use**

**KN  
840**



Designed by one of the world's foremost acoustic engineering groups. Employs dozens of miniaturized parts that are assembled with watchmaker's skill into a perfect mechanical-acoustical component. The KN-840 gives you the absolute maximum in wearing comfort and fidelity, as you enjoy the remarkable realism of private stereo listening! Neatly styled, unusually light in weight, and with extra-soft polyvinyl cushions, you can wear it for hours without fatigue. Has two-way adjustment for most comfortable fit—"rides" so lightly, it never diverts your attention from the recording to which you're listening.

Each earcup of the KN-840 headset is actually a precisely designed hi-fi speaker featuring an electro-dynamic driver and high-compliance curvilinear diaphragm, with special edge and apex suspension. Exacting acoustic design and close manufacturing tolerances maintain uniform, full-range frequency response—no "boomy" bass, no piercing highs. The sound you get is perfectly natural and undistorted. Response, 20 to 16,000 cps. Impedance, 16 to 600 ohms. Includes 3-ft. cord. Made in U.S. Shpg. wt., 2 lbs.

**35 DX 706. No Money Down. ONLY.....19.95**

**MODEL KN-841 CONTROL UNIT.** The height of convenience! Connects to amplifier speaker terminals; KN-840 plugs into KN-841 for chairside control of balance and volume. Less cables. Wt., 1 lb.  
**90 R 874. ONLY.....5.95**

**ADDS A NEW DIMENSION OF SOUND!**

## New Knight Stereo Reverberation Unit

**ONLY  
\$49.95**

**NO MONEY  
DOWN**

**Simulates Sound-Reflecting Panels Used In Recording Studios • Imparts Depth and Beauty to Old Recordings • Lets You Control Acoustics for Tape Recordings, etc.**

More than just a novelty or simple echo device, the KN-702 reverberation unit is an extremely valuable tape recording accessory. Imparts depth and beauty to recordings you've made in your own living room—works wonders on old, lifeless LP's and 78-rpm records—and converts acoustically dead rooms into spacious music halls. The KN-702 simulates sound reflecting panels used in recording studios to add life and realism to music, without affecting fidelity. Actually adds an exciting dimension of sound to broadcast or recorded music. Pays for itself in new listening pleasure from old recordings! Connects to the output of either a stereo or monophonic amplifier; requires the use of a separate 8 or 16-ohm speaker (not supplied). Has control for varying the amount of reverberation and off-on switch. Consists of Hammond Type 4 Reverberator Unit and self-powered Amplifier Unit. Amplifier in dark brown textured finish; 2½x9¾x8". Made in U.S. For 110-120 v., 50-60 cycle AC. Shpg. wt., 8 lbs.

**35 DU 813. No Money Down. ONLY.....49.95**

**Make Home Tape Recordings  
with Studio Acoustic Effects;  
You Control the Amount of  
Reverberation**

**NEW**

**KN  
702**



**Easily  
Fastens  
to Equipment  
Cabinet  
or Base of  
Turntable**



**Hammond  
Reverberator Panel**

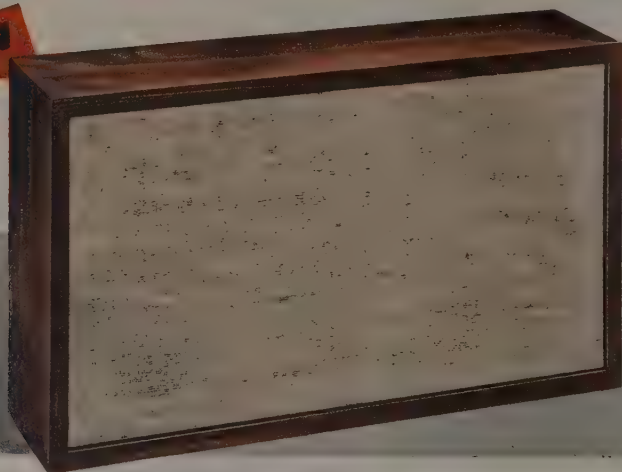


# KNIGHT

## New Look in Speaker Systems . . . at Lowest Cost

*Brilliant New Enclosure Styling, Designed to Fit Anywhere*

**NEW**



**KN  
281**

**NEVER BEFORE SUCH INSTALLATION VERSATILITY**

**acoustical  
perfection  
in a marvel  
of compact  
design and  
cabinetry**



**WALL MOUNT**  
Put it anywhere  
you would hang a  
picture . . .



**RECESSED**  
Fits beautifully in  
wall recesses,  
niches, etc.



**TABLE TOPS**  
Place it on tables,  
any type of rack or  
bench.



**SHELF  
OR MANTEL**  
Fits snugly on  
shelves or mantel.

**AMAZINGLY  
SLENDER  
SILHOUETTE**  
only  $6\frac{1}{2}$ " deep!

## New Knight KN-281 "Slender Style" 2-Way Hi-Fi Speaker System

**GIVES YOU AMAZINGLY DEEP BASS . . . BUY TWO FOR SUPERB STEREO**

**ONLY  
\$49.95**

**NO MONEY  
DOWN**

A trend-setting development in speaker system design, the ingenious KN-281 delivers better and bigger sound, while using less space. Its beautifully styled, narrow-depth enclosure fits in anywhere, and offers virtually unlimited placement possibilities in your home. The KN-281 is made smaller to sound better . . . and to give you flexibility of installation in any room. Superb reproduction of sound is made possible by the use of a precision duct and specially designed inner components: 10" high-compliance woofer with  $\frac{3}{4}$ " cone excursion for deep, full bass response; two  $3\frac{1}{2}$ " direct-radiator tweeters with enclosed backs, for sparkling mid-range and treble.

The enclosure, inner components and duct are critically tuned, like a fine musical instrument, for lowest distortion and uniform response. Even the matching natural cane grille cloth is acoustically transparent to permit free passage of high frequencies. Purchase two KN-281's for your stereo music system—you'll be delighted with the sound they provide.

Carefully assembled and tested, each KN-281 features an audible response of 30 to 15,000 cps. Woofer employs  $\frac{1}{2}$ -lb. Alnico V magnet. Built-in R-C type crossover with level control for adjusting high-frequency response.  $1\frac{1}{2}$ " voice coil diameter. Crossover point, 2000 cps. *Capacity:* up to 30 watts of program material. *Impedance:* 8 ohms. *Overall Size (HWD):*  $13\frac{1}{2} \times 23\frac{3}{4} \times 6\frac{1}{2}$ ". In oiled walnut hardwood veneer; natural cane grille. Made in U.S. Shpg. wt., 24 lbs.

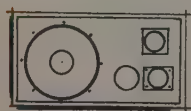
**35 DU 823. No Money Down. EACH, ONLY. . . . . 49.95**

**Save \$5.00! TWO FOR ONLY. . . . . 94.90**

**UNFINISHED MODEL KN-281.** As above, in smooth sanded, ready-to-finish  $\frac{3}{4}$ " gum hardwood.

**35 DU 824. No Money Down. EACH, ONLY. . . . . 44.95**

**MADE SMALLER TO SOUND BETTER!  
PERFECTLY INTEGRATED COMPONENTS**



You get splendid sound from the KN-281 because its inner audio reproducing components are specifically made to the enclosure, to form a completely integrated speaker system.

**USE ALLIED'S  
NEW CREDIT  
FUND PLAN**

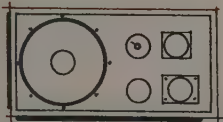
It's designed to give you greater buying power! **No Money Down**—take up to 24 months to pay, if you wish.



**NEW**

## Superlative!

BEAUTY YOU CAN SEE . . .  
AND FABULOUS SOUND



Employs 4 speakers: 10" high-compliance woofer; two 3 1/2" mid-range/treble direct radiators; and dome-type, UHF tweeter.



**KN**  
**2200**

### New KN-2200 High-Compliance 3-Way Speaker System

ACTUALLY SURPASSES PERFORMANCE OF THE WORLD-FAMOUS KN-2000A

ONLY  
**\$79.95**

**NO MONEY DOWN**

gives you deep, boom-free bass; smooth mid-range; and treble response to well beyond the limits of audibility. In a side-by-side performance comparison, it surpasses the KN-2000A, even though its overall size is somewhat smaller! It is a convincing example of tireless craftsmanship that achieves new goals in neat, space-saving design and rich sound . . . at modest cost.

Additionally, the KN-2200 is extremely efficient—any amplifier with a clean output of as little as 10 watts, will drive it to room-filling levels of sound. A high-frequency balance control on rear panel permits regulating highs to suit room acoustics and personal tastes. For a thrilling new listening experience, use two KN-2200's in your stereo music system!

Here are the inner components that make the KN-2200 sound so good: a 10" high-compliance woofer with 3/4" cone excursion; 1-lb. Alnico V magnet; two 3 1/2" special-design, mid-range and treble radiators with enclosed backs; exclusive hemispherical ultra-high-frequency tweeter; and L-C type crossover. The precision UHF tweeter employs dome construction for uniform distribution of highs over a wide listening area—covers the important audio range above 7000 cps with sparkling clarity. *Response:* flat from 25 cycles to beyond audibility. *Capacity:* up to 40 watts of program material. *Two Crossover Points:* 2000 and 10,000 cps. *Impedance:* 8 ohms. Size (HWD): 13 1/2"x23 3/4"x11 3/8". In oiled walnut hardwood veneer; natural cane grille cloth. Made in U.S. Shpg. wt., 38 lbs.

**35 DU 825. No Money Down. ONLY.....79.95**  
**Save \$10.00! TWO FOR ONLY.....149.90**

**UNFINISHED MODEL KN-2200.** As above, in smooth-sanded, ready-to-finish 3/4" gum hardwood.

**35 DU 826. No Money Down. ONLY .....64.95**

*Especially Designed for High-Fidelity Extension Speaker Use*

### New Knight KN-806 2-Way Speaker System

ONLY  
**\$23.50**

**NO MONEY DOWN**

Here's the best-looking, best-sounding hi-fi extension speaker ever offered at this low a price. Imaginatively designed, it not only adds a decorative touch to any room, but you can use it in a variety of ways. Serves as an extension speaker from your hi-fi system, or you can purchase a pair for use as part of a low-cost stereo music system. It's an ideal choice for doctor or dentist waiting rooms, office use, or for paging and background music. Two-way design for marvelous sound (see illustration at right). Has convenient front-mounted volume control. The KN-806 easily handles up to 10 watts of power. Imp., 8 ohms. Compact in size; only 7 1/4" high, 13" wide, 4 5/8" deep. In oiled walnut hardwood veneer. Made in U.S. Wt., 7 1/4 lbs.

**35 DX 827. No Money Down. ONLY.....23.50**



Waiting Rooms



Bedrooms



Dens



Employs a unique 5 1/2" mass-loaded woofer, 3" direct-radiator tweeter, and built-in, 4000 cps, capacitor-type crossover. Natural beige grille cloth; distinctive upright control panel.

**KN**  
**806**

**NEW**

Knight Music Components Fulfill a Living Tradition of Quality and Value

**KNIGHT***Custom Crafted* **Hi-Fi Furniture . . .****EASIEST TO ASSEMBLE . . . LUXURY VENEERS . . .**

35 DZ 835C-3. Matched 3-Pc. Ensemble (Assembled). Specify mahog., limed oak or oiled walnut. 159 lbs. **ONLY . . . 179.50**  
 35 DZ 836C-3. Matched 3-Pc. Ensemble (in Kit Form, Unassembled)..Specify finish. **ONLY . . . 149.95**

*Beautiful  
Low-Cost Hi-Fi  
Furniture*

**IN KIT OR ASSEMBLED FORM  
... DESIGNED TO ENHANCE  
ANY ROOM OR SETTING ...  
AND COMPLEMENT YOUR  
HI-FI COMPONENTS**

A graceful and dignified family of fine cabinets. The KN-1402 equipment cabinet in the center, neatly accommodates your music system components and stores your records. Use either pair of speaker enclosures (KN-1267's are shown in the illustration above, KN-1216's in the illustration below), for a perfectly matched furniture group.



**PURCHASE FURNITURE ON EASIEST TERMS.** For your convenience, all of the Knight hi-fi furniture described in this Catalog is available on our new Credit Fund Plan. No Money Down—take up to 24 months to pay if you wish. Allied's Credit Fund Plan gives you added buying power.



**Remarkably Easy to Assemble**  
A screwdriver and one evening's time is all you need to assemble these fine furniture cabinets. Outer surfaces are expertly pre-finished; holes are pre-drilled; all parts are precision cut and carefully pre-fitted.

**Every Desirable Feature**  
Among the extra touches that distinguish this cabinetry, you'll find —terminal strips installed with soldered inside leads attached; pre-drilled, level control mounting holes; acoustic insulation installed; etc.

**About Changer Compartments**  
The changer compartment of the KN-1402 series equipment cabinet is not supplied with a phono drawer. We recommend that you purchase the base specifically made for the changer or turntable of your choice.

**Knight Speaker Enclosures Are Acoustically Matched to Knight Speakers**



# Now in Low-Cost, Pre-Finished Kit Form

BEAUTIFUL CABINETRY YOU CAN OWN AT NEW LOW PRICES

ALSO AVAILABLE  
FULLY ASSEMBLED



**KN**  
**1402**

## Model KN-1402K Equipment Cabinet Kit

ONLY  
**\$62<sup>50</sup>**

No Money Down

Created by master craftsmen to form an unusually distinctive and beautiful ensemble when used with either of the matching speaker enclosures below. Accommodates all components of a music system except the speakers. Custom features: lustrous, hand-rubbed wood veneers, rigid tongue-and-groove construction, precision-fitted, front-opening doors, etc.

Rear-panel ventilation for circulation of air around components. Compartments: top,  $8\frac{3}{4} \times 33\frac{1}{4} \times 16\frac{1}{4}$ " ; left,  $12\frac{3}{4} \times 14\frac{1}{2} \times 16\frac{1}{4}$ " ; right,  $12\frac{3}{4} \times 18 \times 16\frac{1}{4}$ ". Overall size,  $31\frac{1}{2} \times 36 \times 19$ ". Specify mahogany, limed oak or oiled walnut. Shpg. wt., 65 lbs.  
35 DZ 832C. ONLY.....62.50

KN-1402 CABINET. As above, but factory-assembled. Specify finish.  
35 DZ 831C. ONLY.....74.50



**KN**  
**1267**

## Model KN-1267K Speaker Enclosure Kit

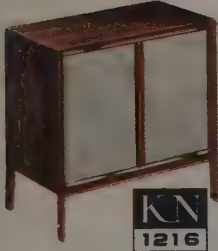
ONLY  
**\$44<sup>50</sup>**

No Money Down

Slender and graceful in appearance, this attractive enclosure is sure to please the most discerning taste. Accommodates any 12" or 15" speaker, including coaxial and triaxial types, and has room for adding 2-way system components on its adapter board. Has high-fashion grille cloth and mitered, pre-assembled front molding.

Styled to match the KN-1402K—internal design brings out the best in Knight speakers. Overall size,  $31\frac{1}{2} \times 19\frac{1}{2} \times 19$ ". Specify choice of mahogany, limed oak or oiled walnut. Shpg. wt., 47 lbs.  
35 DZ 834C. ONLY.....44.50

KN-1267 ENCLOSURE. As above, but factory assembled. Specify finish.  
35 DZ 833C. ONLY.....52.50



**KN**  
**1216**

## Model KN-1216K Speaker Enclosure Kit

ONLY  
**\$52<sup>50</sup>**

No Money Down

An alternate choice for use with the KN-1402K cabinet, the KN-1216K completes the family portrait of acoustically planned cabinets shown in the two settings on the opposite page. The KN-1216K accommodates any 12" or 15" speaker, and its ducted port internal design provides outstanding performance in the lower bass ranges.

Includes adapter board for mounting of tweeter components. Has all the fine furniture touches that characterize Knight cabinetry. Overall,  $31\frac{1}{2} \times 32 \times 19$ ". Specify mahogany, limed oak or oiled walnut. 66 lbs.  
35 DZ 742C. ONLY.....52.50

KN-1216 ENCLOSURE. As above, but factory assembled. Specify finish.  
35 DZ 741C. ONLY.....64.50

## Specially Priced Speaker Enclosure

COMPLETELY ASSEMBLED...TAKES 12" SPEAKER

**KN**  
**1285**

Model KN-1285 Enclosure... High-Grade Veneers and Construction

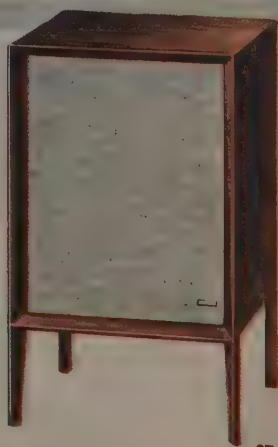
AS LOW AS **\$29<sup>95</sup>** A smartly styled, low-cost speaker enclosure with a number of fine furniture touches. Rigidly constructed of  $\frac{5}{8}$ " plywood, this distinctive enclosure is acoustically lined for clean, resonance-free performance. Accommodates any 12" speaker; includes adapter board for 8" speaker, if preferred. Hand-rubbed hardwood veneers. Overall size,  $30\frac{1}{2} \times 19\frac{1}{2} \times 13\frac{3}{8}$ ". Includes terminal strip mounted on back board. In mahogany, limed oak or walnut—specify choice. Shpg. wt., 30 lbs.

35 DZ 749C. No Money Down. ONLY.....34.95

35 DZ 840. KN-1285 Enclosure, Unfinished. ONLY.....29.95

FURNITURE FINISHING KITS. Contain: stain, filler, sealer, shellac, high-gloss and satin varnishes, finishing paper, brushes and instructions. Specify mahogany, golden oak, walnut or ebony. Wt. 6 lbs.

90 R 881C. EACH KIT. ONLY.....5.88



Luxury-Styled Knight Component Cabinets Are Your Finest Values in Hi-Fi Furniture


**KN-150**

**KN-1276**

## Authentic French Provincial Group

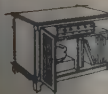
**ONLY \$134<sup>50</sup>**  
**NO MONEY DOWN**  
**MODEL KN-1501 EQUIPMENT CABINET.** Period styling at its best—provides a highly attractive setting for your hi-fi components, and enhances the appearance of any room. The KN-1501 combines the traditional charm and elegance of French Provincial styling, with fine detailing and sturdy construction. Plenty of room for components and record storage too. 32 $\frac{3}{8}$ x37 $\frac{1}{2}$ x20". In fruitwood only. Wt., 82 lbs.

35 DZ 717. *No Money Down.* **ONLY \$134.50**

35 DZ 838-3. Complete 3-Piece Matched Ensemble (KN-1501, two KN-1276). Shpg. wt., 196 lbs. **ONLY \$294.00**

**ONLY \$79<sup>95</sup>**  
**NO MONEY DOWN**  
**MODEL KN-1276 SPEAKER ENCLOSURE.** U two of these magnificent enclosures with the KN-1501 at left, for a stereo music ensemble of breathtaking beauty. Accommodates either a 12" or 15" speaker; has 2 $\frac{1}{2}$ x12" tweeter board for adding 2 and 3-way speaker system components. Enclosure styling features the use of a luxurious matching grille cloth. Overall size 32 $\frac{3}{8}$ x22 $\frac{1}{2}$ x20". In fruitwood only. Wt., 57 lbs.

35 DZ 723. *No Money Down.* **ONLY \$79.95**


**KN-1502**

**KN-1277**

## Popular American Colonial Group

**ONLY \$134<sup>50</sup>**  
**NO MONEY DOWN**  
**MODEL KN-1502 EQUIPMENT CABINET.** One of our most popular component cabinets, the KN-1502 lends an air of familiar warmth to any interior—transforms your music installation into a distinctive showpiece. Clean of line and form, it is a handsome and skillfully fashioned hi-fi music system center. Special touches include "old time" brass door pulls to accent Colonial styling, magnetic door latches, etc. Overall, 29 $\frac{3}{4}$ x37 $\frac{1}{2}$ x20". In maple only. Wt., 78 lbs.

35 DZ 719. *No Money Down.* **ONLY \$134.50**

**ONLY \$79<sup>95</sup>**  
**NO MONEY DOWN**  
**MODEL KN-1277 SPEAKER ENCLOSURE.** Features the same brilliant styling as the KN-1502 at left. Takes either a 12" or 15" speaker; has 2 $\frac{1}{2}$ x12" tweeter board for 2 or 3-way system components. Unusually attractive, the KN-1277 employs a unique grille cloth pattern that not only matches the wood, but also contributes to the Colonial "feel" of this craftsman-created furniture. Overall, 29 $\frac{3}{4}$ x22 $\frac{1}{2}$ x20". In maple only. Shpg. wt., 55 lbs.

35 DZ 725. *No Money Down.* **ONLY \$79.95**

35 DZ 839-3. Complete 3-Piece Matched Ensemble (KN-1502, two KN-1277). Shpg. wt., 188 lbs. **ONLY \$294.00**



# Splendid Custom Furniture . . . Beautifully Crafted and Finished



KN-1500



KN-1275



## Tastefully Styled Danish Modern Group

**ONLY**  
**\$89<sup>95</sup>**

**NO MONEY  
DOWN**

**MODEL KN-1500 EQUIPMENT CABINET.** A classic in furniture styles, Danish Modern cabinetry combines functional design with appealing beauty . . . and the KN-1500 typifies this style at its best. It features gleaming walnut interior to highlight your components. Size, 33x36x20 $\frac{1}{4}$ ". In oiled walnut only. Wt., 80 lbs.

35 DZ 715. *No Money Down.* **ONLY**.....89.95  
35 DZ 716. KN-1500 in Kit Form. **ONLY**.....79.95

**ONLY**  
**\$69<sup>95</sup>**

**NO MONEY  
DOWN**

**MODEL KN-1275 SPEAKER ENCLOSURE.** Styled to match perfectly with the KN-1500, this acoustically correct enclosure accommodates any 12" speaker or 15" woofer. Has 2 $\frac{1}{2}$ x12" tweeter board for 2 and 3-way system components. Overall size, 33x21x20 $\frac{1}{4}$ ". In oiled walnut only. Shpg. wt., 70 lbs.

35 DZ 721. *No Money Down.* **ONLY**.....69.95  
35 DZ 722. KN-1275 in Kit Form. **ONLY**.....59.95

35 DZ 837-3. Complete 3-Piece Matched Ensemble (KN-1500, two KN-1275). Shpg. wt., 220 lbs. **ONLY**.....229.50  
35 DZ 854-3. Complete 3-Piece Matched Ensemble in Kit Form. **ONLY**.....199.50

### ABOUT EQUIPMENT CABINETS.

Each of the component cabinets in the French Provincial (KN-1501), American Colonial (KN-1502), and Danish Modern (KN-1500) groups, features the same inside arrangement. The tuner/amplifier section has panel for custom mounting.

Changer section of these equipment cabinets is supplied less changer drawer (we recommend using base made for the changer of your choice). **DIMENSIONS (HWD):** Tuner-Amplifier section, 8x34x16"; Phono section 14 $\frac{1}{2}$ x19x18 $\frac{1}{2}$ "; Record Storage, 14 $\frac{1}{2}$ x14 $\frac{1}{2}$ x18 $\frac{1}{2}$ ".

### ABOUT ENSEMBLE TOPS

Complete 3-piece ensembles in these furniture styles feature top cut from the same piece of wood to preserve the natural beauty of the matching wood grain.

## Low-Cost Contemporary Group

**ONLY**  
**\$69<sup>95</sup>**

**NO MONEY  
DOWN**

**MODEL KN-1900 EQUIPMENT CABINET.** Neatly styled, the KN-1900 fits beautifully into any contemporary decor; especially suitable for modern interiors. Has room for all of your phono system components plus record storage. Overall size, 28 $\frac{1}{2}$ x36x16 $\frac{1}{4}$ ". In oiled walnut only. Shpg. wt., 65 lbs.

35 DZ 841. *No Money Down.* **ONLY** 69.95

**ONLY**  
**\$39<sup>95</sup>**

**NO MONEY  
DOWN**

**MODEL KN-1901 SPEAKER ENCLOSURE.** Skillfully-made, ducted-port bass reflex design. Takes any 12" speaker; has adapter board for installing 8" speaker if preferred. Rich-looking, boucle-weave grille cloth. Overall size, 28 $\frac{1}{2}$ x17 $\frac{3}{4}$ x16 $\frac{1}{4}$ ". In oiled walnut only. Shpg. wt., 35 lbs.

35 DZ 842. *No Money Down.* **ONLY** 39.95



KN-1900

KN-1901



Lift-lid Changer section of the KN-1900 is 16 $\frac{1}{2}$ " wide, 14 $\frac{1}{2}$ " deep; Tuner-Amplifier section (with 2 adjustable shelves), 21 $\frac{1}{2}$ x16 $\frac{1}{2}$ x15 $\frac{1}{2}$ "; Record Storage, 12 $\frac{1}{2}$  16 $\frac{1}{2}$ x15 $\frac{1}{2}$ ".

### Complete Contemporary Ensemble

Includes KN-1900, two KN-1901 cabinets. 135 lbs.

35 DZ 843-3. *Save \$9.90.* **ONLY**.....139.95

# you get more in every way with an **ALLIED-RECOMMENDED** **STEREO HI-FI MUSIC SYSTEM**

**YOU SAVE MORE** by purchasing a complete system. Each of our systems is priced to save you money over the total price of the same individual components if purchased separately. The amount you save is always stated in our system descriptions.

**YOU GET MATCHED MUSICAL BALANCE.** Components used in systems in each price category are carefully evaluated so that they match in quality and operating characteristics. Their performance as an integrated system is verified by comparative listening tests on our renowned *Auditioner Control Console*. You are assured of the finest audio reproduction possible.

## YOU GET PLUG-IN CONNECTING EASE



No technical knowledge is required. Your Allied music system is easiest to connect. Simply plug record changer connectors into the amplifier—connect the speakers to the amplifier—plug the amplifier into an AC outlet. You can't go wrong with our easy-to-follow instructions.

## YOU GET ALL OF THESE EXTRAS—FREE



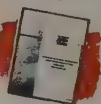
12" Stereo Record. A "Stereo Spectacular" demonstration record with 10 dynamic, classic music selections.



Pre-Set Stylus Pressure. No critical adjustments for you to make—needle pressure is pre-set.



Cables and Connectors. Everything you need—two 15-ft. speaker cables, plus all other connecting cables.



Instruction Manuals. Easy to understand; help you get the most out of your stereo hi-fi music system.



Booklet on Record and Needle Care, plus Allied's Stereo Record and Tape Catalog. Two top publications!



Speakers Mounted. Securely fastened in place in the enclosure(s) of your choice. Saves time and trouble.

**HOME TRIAL PLAN.** Any Allied music system you buy, either for cash or on our Credit Fund Plan, may be tested under the terms of our trial guarantee. Check performance in your own home. If you are not fully satisfied, return the system to us for a full refund, less only transportation charges.

**NO MONEY DOWN.** . . . on the music system of your choice; take up to 24 months to pay, if you wish.

## GET OUR MONEY-SAVING QUOTATION ON A SYSTEM OF COMPONENTS OF YOUR OWN CHOICE

Study the pages where individual hi-fi components are described—make a list of the components you prefer—then send a letter to our Audio Division asking for a special System Plan price quotation. Your inquiry will receive a prompt answer.



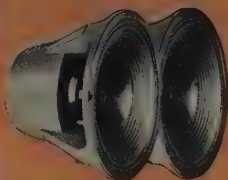
# KNIGHT

## STEREO HI-FI MUSIC SYSTEMS



Knight KN-400B  
All-Transistor  
40-Watt Stereo  
Amplifier

Garrard "Autoslim"  
Record Changer with  
Knight KN-500X  
Cartridge and  
Wood Base; 12"  
Stereo Record



Two Knight  
KN-1200 12"  
Coax Speakers



Optional Knight KN-250M  
Transistor-Nuvistor  
Stereo Multiplex FM Tuner

## Super-Value 40-Watt Stereo Phono System

Featuring the Knight KN-400B All-Transistor Amplifier

SYSTEM PRICE

# \$189<sup>95</sup>

NO MONEY DOWN

**SAVE \$29.88 OVER COST OF COMPONENTS PURCHASED SEPARATELY.** Be one of the first to own this magnificent new record-playing stereo system, centered around our sensational transistor amplifier! Includes: new Knight KN-400B 40-Watt Stereo Amplifier; new Garrard "Autoslim" 4-Speed Changer with Wood Base and Knight KN-500X Cartridge with .0005" Diamond Needle, installed in pickup arm; two new Knight KN-1200 12" Coaxial Speakers; new "Stereo Spectacular" 12" Stereo Record, plus all other music system extras. The KN-400B gives you cool-running operation, compact size and fabulous audio reproduction! Changer base in mahogany, lined oak or walnut. Shpg. wt., 52 lbs.

20 HF 900. *Specify Finish.* ONLY . . . . . \$189.95

**MULTIPLY FM-PHONO SYSTEM.** *Save \$39.83!* Same system as above, with new Knight KN-250M Stereo Multiplex FM Tuner. Shpg. wt., 60 lbs.

20 HF 902. *Specify Finish.* ONLY . . . . . \$319.95

## WITH KN-1285 SPEAKER ENCLOSURES



**PHONO SYSTEM.** *Save \$32.23!* Includes all components of Phono System described above, plus two Knight KN-1285 Speaker Enclosures. In mahogany, lined oak or walnut—specify. Wt., 112 lbs.

20 HF 901. ONLY \$257.50

**MULTIPLY FM-PHONO SYSTEM.** *Save \$44.68!* As above, and with KN-250M Tuner. *Specify finishes.* Wt., 120 lbs.

20 HF 903. ONLY \$385.00



## Exclusive with Allied . . . Unexcelled for Value

Allied's famous System Plan—plus the unrivaled value of Allied's own Knight components—combine to bring you giant double savings! Whether you choose from Allied's carefully selected, matched-component music ensembles, or make up your own combination—you'll get the best for less with Knight. These outstanding high-fidelity components are designed to give you the most for your money, and are unconditionally guaranteed for one full year. See introductory pages at the beginning of this section for complete information on these years-ahead, music reproducing high-fidelity instruments.



**New Knight KN-310M**  
"All-in-One"  
Transistor-Nuvistor  
Stereo FM Receiver

**New Garrard AT6**  
Automatic Turntable  
with Wood Base,  
Knight KN-500X  
Cartridge, "Stereo  
Spectacular" Record



**Two New Knight**  
KN-2200 3-Way,  
High-Compliance  
Speaker Systems

### Tremendous Savings in a Complete Stereo Multiplex FM-Phono System

Featuring the Transistor-Nuvistor KN-310M All-in-One FM Stereo Receiver

SYSTEM PRICE

**\$419<sup>50</sup>**

NO MONEY DOWN

fully into the most luxurious of settings. System includes: new Knight KN-310M FM Stereo Receiver (Stereo Multiplex FM Tuner and 40-Watt Stereo Amplifier in a single, compact unit); new Garrard AT6 4-Speed Changer with Wood Base and Knight KN-500X Cartridge with .0005" Diamond Stylus, installed in its pickup arm; two new Knight KN-2200 3-Way, High-Compliance Speaker Systems; Allied's new 12" Stereo Record; all system extras.

A trend-setting high-fidelity component of advanced design, the unique KN-310M "all-in-one" unit (fully described at the beginning of this section), offers phenomenal audio reproduction from its all-transistor 40-watt amplifier section . . . and amazing sensitivity from its transistor-Nuvistor FM tuner section. Garrard's new AT6 4-speed changer with professional turntable specifications, makes a valuable contribution to the splendid performance of this system. Styled in oiled walnut, the KN-2200 speaker systems are latest versions of a classic in speaker design—the world-famous Knight KN-2000A's—and they sound even better! Changer base available in mahogany, limed oak or walnut—specify. Shpg. wt., 113 lbs.

20 HF 904. Specify Finish. ONLY. . . . . 419.50



#### MATCHING COMPONENT CABINET

**MODEL KN-1402.** Highly attractive equipment cabinet for accommodating all components (except speaker systems), of the music ensemble above. In mahogany, limed oak or oiled walnut. Shpg. wt., 65 lbs.  
35 DZ 831C. Specify Finish. ONLY. . 74.50



#### SYSTEM AS ABOVE, WITH ALTERNATE SPEAKER SYSTEMS

Save \$60.78. The same deluxe multiplex FM-Phono stereo ensemble as above, but with two new Knight KN-1200 12" Coaxial Speakers, installed in two Knight KN-1267 Speaker Enclosures, in place of the two KN-2200 speaker systems. An excellent alternate choice, the KN-1200's in the floor-type KN-1267 enclosures deliver marvelous sound. Enclosures in mahogany, limed oak or walnut—specify. Shpg. wt., 158 lbs.

20 HF 905. ONLY. . 419.50

Stereo Hi-Fi Music Systems Are Available on Allied's New Credit Fund Plan



# KNIGHT

# STEREO SYSTEMS

## Featuring 75-Watt Modern Masterpiece

**KNIGHT KN-450 ALL-TRANSISTOR AMPLIFIER.** Utilizing the exciting advances of space-age electronics, the KN-450 is the superb center of this deluxe custom component ensemble. Precision-built; cool-running; and power-packed for finest performance.



**Knight KN-450 75-Watt All-Transistor Stereo Amplifier**

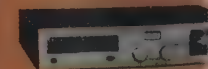
**Garrard Type "A" Automatic Turntable and Base; Knight KN-500X Stereo Cartridge**



**2—Knight KN-600HC 12" High-Compliance Speakers**

**Stereo Demonstration Record**

**MULTIPLEX STEREO**



**Optional: Knight KN-260MC FM Tuner with Multiplex Circuit and Clock-Timer**

## Top-Performing 75-Watt Stereo Hi-Fi Phono System

Highlighted by the new Knight KN-450 All-Transistor Amplifier

SYSTEM PRICE

**\$389.50**

NO MONEY DOWN

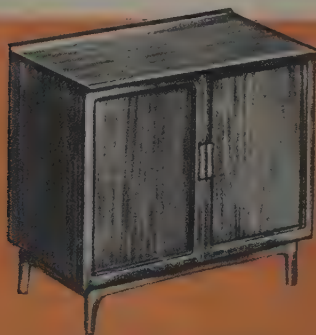
**SAVE \$43.88 OVER THE COST OF COMPONENTS PURCHASED SEPARATELY.** Designed for those who insist on the best and the most up-to-date equipment, this sensational system reproduces sound with fidelity that will delight even a professional musician. System includes: Knight KN-450 75-Watt All-Transistor Stereo Amplifier; Garrard Type "A" 4-Speed Record Changer and Base; Knight KN-500X Stereo Cartridge with .0005" Diamond Needle; and 2—Knight KN-600HC 12" High-Compliance Speakers. In addition, you get Allied's exclusive stereo demonstration record, filled with dazzling musical selections; plus the complete array of exclusive Allied music system extras.

Knight KN-450 has tremendous power reserve to cleanly reproduce even the most thunderous musical passages. Garrard's Type "A" combines the convenience of a record changer with the performance of a turntable. Deftly and silently handles your precious records. KN-500X cartridge is thoroughly inspected at the factory prior to shipment. Includes .0005" diamond stylus specially designed for use with stereo microgroove LPs. Sensational KN-600HC speakers are noted for soft extra-low bass response. Feature overall response from 25 to 18,000 cps; heavy 4.6-lb. ceramic magnet; 1/2" thick styrene woofer cone. Install them "in-the-wall" in enclosures you build yourself. Changer base in choice of mahogany, limed oak or walnut. Shpg. wt., 103 lbs.

20 HF 906. *Specify Finish.* ONLY..... 389.

**MULTIPLEX FM-PHONO SYSTEM.** Save \$47.93. Includes components above plus Knight KN-260MC FM Tuner with multiplex circuit and built-in clock-timer, plus transistor nuvistor circuit. Shpg. wt., 114 lbs.

20 HF 907. *Specify Finish.* ONLY..... 539.



**MATCHING EQUIPMENT CABINET**

**KNIGHT KN-1500.** Matches KN-1275 Enclosures, at right. Elegant Danish Modern styling. Compartments: top, 8x34x18 1/2"; left, 14 3/4x19x18 1/2"; right, 14 3/4x14 1/2x18 1/2". Overall size, 33" high, 36" wide and 20 1/4" deep. Available in oiled walnut veneer only. Shpg. wt., 80 lbs.

35 DZ 715. *No Money Down.* ONLY..... 89.95

## ABOVE WITH FLOOR ENCLOSURE



**PHONO SYSTEM.** Save \$46.33. All components 75-watt stereo phono system above, but with KN-600HC speakers installed in Knight KN-1275 Speed Enclosures. Smart Danish Modern motif. In oiled walnut only. Shpg. wt., 243 lbs.

20 HF 908. ONLY 526.

**FM-PHONO SYSTEM.** Save \$53.83. As above, plus KN-260MC FM Tuner. 254 lbs.

20 HF 909. ONLY 673.

**NO MONEY DOWN • EASIEST TERMS  
UNCONDITIONAL MONEY-BACK GUARANTEE**



# Exclusive Allied-Recommended Systems . . . the Very Finest at Giant Savings



**Knight KN-780 100-Watt Stereo Amplifier**

Garrard Type "A" Automatic Turntable and Base; Knight KN-500X Cartridge



Demonstration Record

MULTIPLEX STEREO



Optional:  
Knight KN-150M Stereo Multiplex FM Tuner



2—Knight KN-600HC 12" Hi-Fi Speakers

## 100-Watt Stereo Phono System

Featuring Knight KN-780 Stereo Amplifier

**SYSTEM PRICE \$349.95**  
NO MONEY DOWN

SAVE \$53.43 OVER THE COST OF COMPONENTS PURCHASED SEPARATELY. Super-powered, custom component array—perfectly matched to give you the most for your hi-fi dollar. System includes: Knight KN-780 100-Watt Stereo Amplifier; Garrard Type "A" 4-Speed Changer & Base; Knight KN-500X Stereo Cartridge with .0005" Diamond Needle; and 2—Knight KN-600HC 12" High-Compliance Speakers. A first-rate music system with tremendous power reserve! With demonstration record and all system extras. Base in mahogany, limed oak or walnut. Shpg. wt., 124 lbs.

20 HF 910. *Specify Finish.* ONLY..... **349.95**

**MULTIPLEX FM-PHONO SYSTEM.** Save \$62.93. All components above, plus Knight KN-150M FM Tuner with built-in multiplex circuit. Shpg. wt., 145 lbs.

20 HF 911. *Specify Finish.* ONLY..... **489.95**

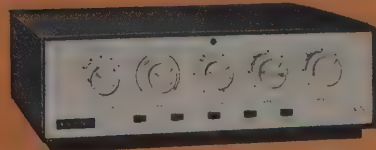
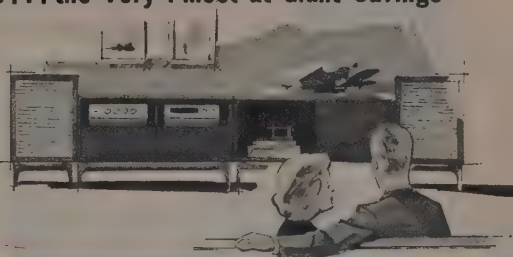
### ABOVE WITH FLOOR ENCLOSURES

**PHONO SYSTEM.** Save \$60.33. All components of 100-watt stereo phono system above, but with KN-600HC speakers installed in Knight KN-1275 Speaker Enclosures. Danish Modern motif. In oiled walnut only. Wt., 264 lbs.

20 HF 912. ONLY..... **482.95**

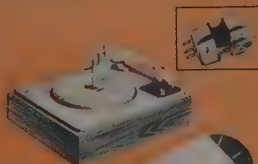
**MULTIPLEX FM-PHONO SYSTEM.** Save \$67.83. As above, plus KN-150M FM Multiplex Tuner. Shpg. wt., 285 lbs.

20 HF 913. ONLY..... **624.95**



**Knight KN-735 40-Watt Stereo Amplifier**

Garrard Autoslim Changer & Base; Knight KN-500X Stereo Cartridge



Demonstration Record



2—Knight KN-820 12" Hi-Fi Speakers

## Big Value 40-Watt Stereo Phono System

Featuring Knight KN-735 Stereo Amplifier

**SYSTEM PRICE \$149.95**  
NO MONEY DOWN

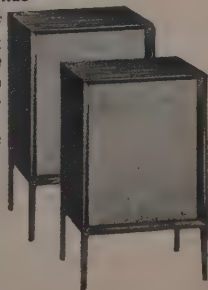
SAVE \$28.33 OVER THE COST OF COMPONENTS PURCHASED SEPARATELY. Much more for your money in power, beauty and stirring performance. System includes: Knight KN-735 40-Watt Stereo Amplifier; Garrard Autoslim 4-Speed Changer and Base; Knight KN-500X Stereo Cartridge with .0005" Diamond Needle; and 2—Knight KN-820 12" Hi-Fi Speakers. You also get demonstration record; system extras; etc. Base in mahogany, limed oak or walnut. Shpg. wt., 43 lbs.

20 HF 914. *Specify Finish.* ONLY..... **149.95**

### ABOVE WITH FLOOR ENCLOSURES

**SAVE \$33.23.** Includes all of the components of the 40-watt system above, with the Knight KN-820 Speakers installed in Knight KN-1285 Speaker Enclosures. Elegantly styled, they have an unobtrusive modern look that goes well with almost any surroundings. Enclosures in mahogany, limed oak or walnut—specify. With demonstration record and all Allied music system extras. Shpg. wt., 103 lbs.

20 HF 915. ONLY..... **214.95**



**SAVE**

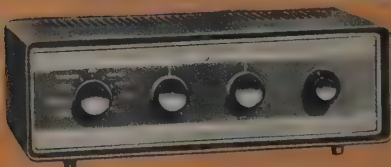
**SAVE  
TWO WAYS**

## ECONOMICAL DO-IT-YOURSELF STEREO HI-FI SYSTEMS

featuring finest quality *knight-kit* components

You save more—in two important ways—when you choose an Allied recommended "do-it-yourself" hi-fi music system. You save by buying at Allied's special system price; and you pocket big savings by assembling these finest quality kits yourself.

**ADDITIONAL VALUE.** Of course, with any Knight-Kit "do-it-yourself" system you also receive the extensive array of Allied extras: Demonstration record; all cables; booklet on record and needle care; system instruction book; speakers mounted in enclosures; etc.

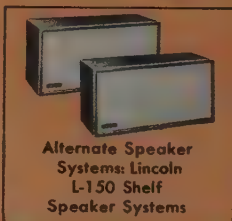


Knight-Kit  
KA-25  
20-Watt  
Stereo  
Amplifier Kit

Garrard Autoslim  
4-Speed Changer  
and Base; Knight  
KN-500X Cartridge



2—Knight KN-809  
8" Hi-Fi Speakers



Alternate Speaker  
Systems: Lincoln  
L-150 Shelf  
Speaker Systems



Knight-Kit  
KA-25  
20-Watt  
Stereo  
Amplifier Kit

Garrard Autoslim  
4-Speed Changer  
and Base; Knight  
KN-500X Cartridge



2—Knight KN-820  
12" Hi-Fi Speakers



Alternate System:  
With Knight KN-1285  
Speaker Enclosures

### LOW-COST 20-WATT STEREO PHONO SYSTEM

SYSTEM PRICE

**\$99.95**

NO MONEY DOWN

**SAVE \$24.33 OVER THE COST OF COMPONENTS PURCHASED SEPARATELY.** Carefully selected by Allied's audio staff to provide excellent stereo sound at exceptionally low cost, this fine-performing system is centered around the Knight-Kit 20-watt stereo amplifier kit. System includes: Knight-Kit KA-25 20-Watt Stereo Amplifier Kit; Garrard Autoslim 4-Speed Record Changer and Base; Knight KN-500X Stereo Magnetic Cartridge with .0005" Diamond Needle; and 2—Knight KN-809 8" Hi-Fi Speakers. In addition you receive sensational 12" stereo demonstration record plus all Allied system extras.

Advanced design, smartly styled amplifier features a host of controls and inputs. Smooth-operating Autoslim changer gently and quietly handles your records. Knight KN-500X cartridge with diamond needle captures all the magic of your stereo and monophonic LP's. Knight KN-809 full-range 8" hi-fi speakers can be installed in your own enclosures (see alternate system below) or in-the-wall. Changer base in choice of mahogany, limed oak or walnut. Shpg. wt., 41 lbs.

20 HF 916. *Specify Finish.* ONLY..... **99.95**

**ABOVE SYSTEM WITH LINCOLN L-150 SPEAKER SYSTEMS.** Save \$24.68. Above system with KN-809's installed in Lincoln L-150 shelf speaker-enclosures. In mahogany, blonde or walnut leatherette. Shpg. wt., 67 lbs.

20 HF 917. *Specify Finish.* ONLY..... **123.50**

### DELUXE 20-WATT STEREO PHONO SYSTEM

SYSTEM PRICE

**\$114.95**

NO MONEY DOWN

**SAVE \$23.33 OVER THE PRICE OF COMPONENTS PURCHASED SEPARATELY.** A remarkable value, this perfectly balanced custom component system features the exceptionally popular Knight KN-820 12" speakers. Complete system includes: Knight-Kit KA-25 20-Watt Stereo

Amplifier Kit; Garrard Autoslim 4-Speed Record Changer and Base; Knight KN-500X Stereo Magnetic Cartridge with .0005" Diamond Needle; and 2—Knight KN-820 12" Hi-Fi Speakers. Versatile Knight-Kit 20-watt amplifier is a universal hi-fi favorite. Autoslim changer deftly handles your precious records—quietly and smoothly. Famous Knight KN-500X cartridge with diamond LP needle has been critically tested at the factory to insure peak performance. Install Knight KN-820 12" speakers in enclosures you've built yourself, or custom-install them in the wall. In addition, you receive the sparkling Allied demonstration record plus all Allied music system extras. Changer base in choice of mahogany, limed oak or walnut finish. Shpg. wt., 45 lbs.

20 HF 918. *Specify Finish.* ONLY..... **114.95**

**ABOVE SYSTEM WITH KNIGHT KN-1285 FLOOR ENCLOSURES.** Save \$28.23. Above deluxe system, but with KN-820 speakers installed in KN-1285 enclosures. In mahogany, limed oak or walnut. Wt., 103 lbs.

20 HF 919. *Specify Finish.* ONLY..... **179.95**

**TUNERS THAT MATCH KNIGHT-KIT AMPLIFIERS** are listed in the Knight-Kit section of this catalog. Listings include FM tuners featuring built-in multiplex circuitry.





## FUN TO BUILD . . . AND YOU OWN THE BEST

Building it yourself is always satisfying fun—and with Knight-Kits you're assured of the finest electronic equipment available in money-saving kit form. Knight-Kit engineers have given painstaking attention to every detail—from the moment you open the carton 'til your working model has been completed—in establishing an enviable reputation among hobbyists of all ages.



**Knight-Kit  
KA-40 32-Watt  
Stereo  
Amplifier Kit**

Garrard Autoslim  
Changer and Base;  
Knight KN-500X  
Stereo Cartridge



Demo  
Record

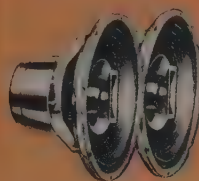


2—Knight KN-820  
12" Hi-Fi Speakers



**Knight-Kit  
KA-55  
40-Watt  
Stereo  
Amplifier Kit**

Garrard AT6  
Changer and Base;  
Knight KN-500X  
Stereo Cartridge



2—Knight KN-800A  
12" 3-Way Speakers



Alternate Speaker  
Systems: 2—Knight  
KN-2200 Systems

### TOP BUY 32-WATT STEREO PHONO SYSTEM

SYSTEM PRICE

**\$134<sup>95</sup>**

NO MONEY DOWN

SAVE \$23.33 OVER THE COST OF COMPONENTS PURCHASED SEPARATELY. Combining breathtaking performance with maximum flexibility, this 32-watt stereo phono system is a remarkable value. Pocket savings by buying at Allied's system price; save more by assembling the amplifier yourself. System includes: Knight-Kit KA-40 32-Watt Stereo Amplifier Kit; Garrard Autoslim 4-Speed Changer and Base; Knight KN-500X Stereo Cartridge with .0005" Diamond Needle; and 2—Knight KN-820 12" Hi-Fi Speakers. Advance-design Knight-Kit 32-watt amplifier delivers extra power to handle music of wide dynamic range with outstanding fidelity. Autoslim changer and KN-500X cartridge provide optimum reproduction from any stereo or monophonic microgroove LP. Knight KN-820 speakers employ two cones for full, rich response throughout the listening range. In addition to a dazzling stereo demonstration record, you get all the regular Allied music system extras. Changer base in mahogany, limed oak or walnut. Shpg. wt., 52 lbs.

20 HF 921. *Specify Finish. ONLY*..... **134.95**

**ABOVE WITH FLOOR ENCLOSURES**  
in money-saving kit form

SAVE \$29.78. Includes all components of 32-watt stereo phono system above, plus 2—Knight KN-1267K Speaker Enclosure Kits. Enclosures go together easily—only a screwdriver is needed. *Specify choice of mahogany, limed oak or walnut finish.* Shpg. wt., 146 lbs.

20 HF 922. *ONLY*..... **217.50**



### DELUXE 40-WATT STEREO PHONO SYSTEM

SYSTEM PRICE

**\$216<sup>95</sup>**

NO MONEY DOWN

SAVE \$29.33 OVER THE COST OF COMPONENTS PURCHASED SEPARATELY. Magnificent performance, striking styling and exceptional versatility highlight this outstanding ensemble. And you realize big, two-way savings—by buying at Allied's system price, and by building the amplifier yourself. System includes: Knight-Kit KA-55 40-Watt Stereo Amplifier Kit; Garrard AT6 4-Speed Record Changer and Base; Knight KN-500X Stereo Cartridge with .0005" Diamond Needle; and 2—Knight KN-800A 12" 3-Way Hi-Fi Speakers. In addition, you receive a dazzling stereo demonstration record, plus all Allied system extras. Knight-Kit 40-watt amplifier offers every control and input; AT6 and KN-500X bring out the best in your records; KN-800A's offer life-like response. Changer base in mahogany, limed oak or walnut. Shpg. wt., 67 lbs.

20 HF 925. *Specify Finish. ONLY*..... **216.95**

**ABOVE SYSTEM WITH KNIGHT KN-2200 SPEAKER SYSTEMS.** Save \$32.78. Includes all components of above system with Knight KN-2200 Shelf-Type Speaker Systems in place of KN-800A's. Oiled walnut only. Shpg. wt., 121 lbs.

20 HF 926. *No Money Down. ONLY*..... **283.50**

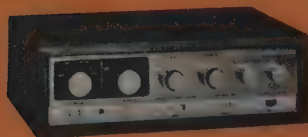
**MATCHING TUNERS** for Knight-Kit stereo systems are listed in the Knight-Kit section of this catalog.

**MONEY-BACK GUARANTEE.** Knight-Kits must meet with your satisfaction or your purchase price will be refunded.

**NO MONEY DOWN** on any Knight-Kit with Allied's Credit Fund Plan. Take up to 24 months to pay.

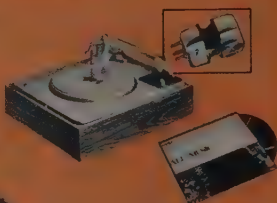
**SAVE**

# SELECT A DO-IT-YOURSELF *knight-kit* STEREO SYSTEM

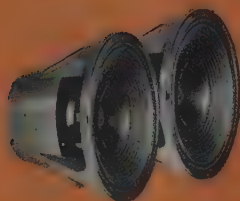


**Knight-Kit 50-Watt All-Transistor Stereo Amplifier Kit with Walnut Case**

**Garrard Autoslim 4-Speed Changer and Base; Knight KN-500X Stereo Cartridge**



**Stereo Demonstration Record**



**2—Knight KN-1200 12" Coaxial Speakers**



**Knight-Kit KA-95 70-Watt Stereo Amplifier Kit**

**Garrard Type "A" Automatic Turntable and Base; Knight KN-500X Stereo Cartridge**



**Stereo Demonstration Record**



**2—Knight KN-600HC High Compliance 12" Speakers**

## MODERN 50-WATT STEREO PHONO SYSTEM

with the new Knight-Kit KX-60 All-Transistor Amplifier

### SYSTEM PRICE

**\$184<sup>95</sup>**

### NO MONEY DOWN

**SAVE \$27.78 OVER THE COST OF COMPONENTS PURCHASED SEPARATELY.** Distinguished by truly luxurious styling and reliable performance, this custom system is the ultimate in flexibility. Compact, feather-light amplifier can be placed anywhere—never any heat problem. Speakers may be custom-installed in your own cabinets, in the wall, etc. Big double savings, too! Save on the cost of individual components purchased separately; save by assembling the amplifier yourself.

Includes: Knight-Kit KX-60 50-Watt Transistor Amplifier Kit with Walnut Case; Garrard Autoslim 4-Speed Record Changer and Base; Knight KN-500X Cartridge with Diamond Needle; and 2—Knight KN-1200 12" Speakers. You also receive 12" stereo demonstration record made exclusively for Allied and all other Allied system extras. Changer base in choice of mahogany, limed oak or walnut. Shpg. wt., 56 lbs.

20 HF 928. *Specify Finish.* ONLY..... 184.95

### ABOVE WITH FLOOR ENCLOSURES



**SAVE \$31.13.** Includes all components of 50-watt system above, with speakers installed in Knight KN-1285 Enclosures. Bass-reflex design for excellent bass response. Enclosures finished in mahogany, limed oak or walnut—specify choice when ordering. Complete with all system extras. Shpg. wt., 116 lbs.

20 HF 929. ONLY.... 251.50

## SUPER POWER 70-WATT STEREO PHONO SYSTEM

### SYSTEM PRICE

**\$319<sup>00</sup>**

### NO MONEY DOWN

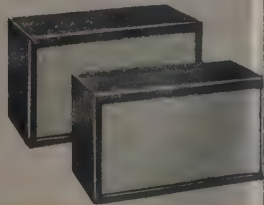
**SAVE \$34.38 OVER THE COST OF COMPONENTS PURCHASED SEPARATELY.** Highlighted by the Knight-Kit KA-95 70-watt stereo amplifier, this super array of custom components is a tremendous value. You save twice: on the cost of components purchased separately; and by assembling the amplifier. System includes Knight-Kit KA-95 70-Watt Stereo Amplifier Kit; Garrard Type "A" Automatic Turntable and Base; Knight KN-500X Cartridge with Diamond Needle; and 2—Knight KN-600HC 12" Speakers. You also receive all Allied system extras; plus Allied's exclusive stereo demonstration record filled with dynamic musical selections—a sensational show piece. Two 35-watt channels of the amplifier provide more than enough power required for perfect reproduction from high-compliance speakers. Changer base available in choice of mahogany, limed oak or walnut. Shpg. wt., 117 lbs.

20 HF 934. *Specify Finish.* ONLY..... 319.00

### WITH SHELF SPEAKERS

**SAVE \$36.28.** 70-watt system above, with Knight KN-2200 Shelf Speaker Systems in place of KN-600 HC's. In oiled walnut only. 133 lbs.

20 HF 935.. 348.00



**MULTIPLEX TUNERS.** Complete your Stereo High Fidelity Music System with an FM tuner that is ready to receive stereo multiplex FM broadcasts. For FM tuners with built-in multiplex, see the Knight-Kit section of this catalog.



... SO EASY TO ASSEMBLE. . . GUARANTEED QUALITY . . . LOWEST COST



### 32-WATT STEREO MULTIPLEX FM-AM PHONO SYSTEM

SYSTEM PRICE

**\$206<sup>95</sup>**

NO MONEY DOWN

SAVE \$29.28 OVER THE COST OF COMPONENTS PURCHASED SEPARATELY. A complete custom ensemble for thrilling stereo listening from your records or FM. System includes: Knight-Kit KU-45 Receiver Kit; Garrard Autoslim 4-Speed Record Changer and Base with Knight KN-500X Stereo Cartridge; and 2—Knight KN-820 12" Speakers.

The KU-45 offers a powerful 32-watt stereo output for brilliant response from any source; highly sensitive FM section with built-in multiplex circuit for reception of stereo multiplex FM broadcasts; plus AM section for staying in touch with news, sports, etc. Knight KN-820 Speakers are only 4" deep; perfect for "in the wall" custom installation. Quiet Garrard Autoslim gently handles your records. With stereo demonstration record and system extras. Changer base in choice of mahogany, limed oak or walnut. Shpg. wt., 72 lbs.

20 HF 931. Specify Finish. ONLY.....206.95

ABOVE SYSTEM WITH KNIGHT KN-281 SPEAKER SYSTEMS. Save \$32.28. Includes components of system above, with Knight KN-281 "Slender Style" Shelf-Speaker Systems in place of the KN-820's. KN-281's give twice the sound in half the space—only 6½" deep. Fit on mantels, shelves, in room dividers. Finished in attractive oiled walnut only. Shpg. wt., 108 lbs.

20 HF 932. No Money Down. ONLY.....269.95

### 40-WATT STEREO MULTIPLEX FM SYSTEM

with Deluxe Tuner and 40-Watt Amplifier Kits

SYSTEM PRICE

**\$184<sup>95</sup>**

NO MONEY DOWN

SAVE \$10.85 OVER THE COST OF COMPONENTS PURCHASED SEPARATELY. Enjoy the finest in FM music reproduction with this selected group of custom components. Up-to-date, exceptionally sensitive tuner includes built-in multiplex circuit for reception of stereo FM multiplex broadcasts. System includes: Knight-Kit KF-75 Stereo FM Tuner Kit; Knight-Kit KA-55 40-Watt Stereo Amplifier Kit; and 2—Knight KN-820 12" Hi-Fi Speakers. You also receive all Allied system extras plus Allied's exclusive 12" stereo demonstration record with dazzling musical selections. And by using Allied's system plan you reap big two-way savings. You save on the cost of individual components purchased separately; you save again by assembling the amplifier and tuner yourself. System can be conveniently expanded to include phono (see system listed below) and tape facilities at any time in the future. Shpg. wt., 66 lbs.

20 HF 927. No Money Down. ONLY.....184.95

ABOVE SYSTEM PLUS GARRARD TYPE "A" AUTOMATIC TURNTABLE WITH KNIGHT KN-500X CARTRIDGE. Save \$32.73. A complete stereo multiplex FM-phono system. Includes components of above system plus Garrard Type "A" and base with Knight KN-500X cartridge. Changer base available in mahogany, limed oak or walnut finish. Shpg. wt., 90 lbs.

20 HF 933. Specify Finish. ONLY.....267.50

• NO MONEY DOWN with Allied's Credit Fund Plan. Gives you up to 50% more buying power, lets you take up to 24 months to pay—if you choose.

• MONEY BACK GUARANTEE. The Knight-Kit you buy must meet with your complete satisfaction or your entire purchase price will be refunded.

with MULTIPLEX  
STEREO FM



Knight-Kit  
KU-45 Stereo  
Receiver Kit

Garrard Autoslim  
4-Speed Changer,  
and Base; Knight  
KN-500X Cartridge



12" Demo  
Record



2—Knight KN-820  
12" Speakers



Alternate Speaker  
Systems: 2—Knight  
KN-281 "Slender Style"

with MULTIPLEX  
STEREO FM



Knight-Kit  
KA-55 40-  
Watt Stereo  
Amplifier Kit

Knight-Kit  
KF-75 Deluxe  
FM Tuner Kit  
with Built-in  
Multiplex



Optional Changer  
Garrard Type "A"  
and Base; Knight  
KN-500X Cartridge



2—Knight KN-820  
12" Hi-Fi Speakers

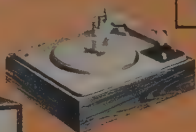
IMPORTANT! ADDITIONAL DO-IT-YOURSELF SYSTEMS. For a selection of more economy-priced, extra-value Knight-Kit stereo systems, see the preceding three pages of this catalog.

# ALLIED-RECOMMENDED STEREO HI-FI SYSTEMS FEATURING

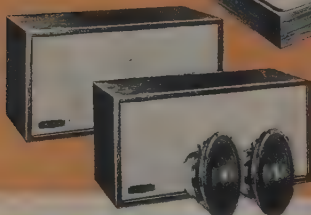


Harman-Kardon  
A-300 30-Watt  
Stereo Amplifier  
and Metal Case

Garrard Autoslim  
Record Changer  
and Base;



Shure M7D  
Cartridge,  
Diamond  
Needle



2-Knight KN-809  
Speakers Installed  
in Lincoln L-150  
Shelf Enclosures

T-300X



## 30-Watt Stereo Phono System

FEATURING HARMAN-KARDON A-300 AMPLIFIER

SYSTEM PRICE

**\$178.95**

No Money Down

SAVE \$41.85 OVER THE COST OF COMPONENTS PURCHASED SEPARATELY. Dazzling stereo, full flexibility and outstanding economy—a winning custom component combination! System includes: Harman-Kardon A-300 30-Watt Stereo Amplifier and Metal Case; Garrard Autoslim 4-Speed Record Changer and Base; Shure M7D Stereo Cartridge with .0007" Diamond Needle; and 2—Knight KN-809 8" Hi-Fi Speakers installed in Lincoln L-150 Enclosures. Also demonstration record, other system extras. Base and Enclosures in mahogany, blonde or walnut. 74 lbs.

20 HF 685. *Specify Finish.* ONLY.....178.95

STEREO FM-AM-PHONO SYSTEM. Save \$63.75. All components of system above, plus Harman-Kardon T-300X FM-AM Stereo Tuner. Built-in multiplex; metal case. Shpg. wt., 99 lbs.

20 HF 686. *Specify Finish.* ONLY 319.95

## 44-Watt Stereo Phono System

FEATURING H. H. SCOTT 222-C AMPLIFIER

SYSTEM PRICE

**\$244.50**

No Money Down

SAVE \$61.22 OVER THE COST OF COMPONENTS PURCHASED SEPARATELY. Perfectly matched for installation in your own cabinets, walls, etc. System includes: Scott 222-C 44-Watt Stereo Amplifier and Metal Case; Garrard AT6 Automatic Turntable and Base; Shure M7D Cartridge with .0007" Diamond Needle; 2—Electro-Voice LT-12 12" 3-Way Hi-Fi Speakers. You get a demonstration record, and all exclusive Allied music system extras. Base in mahogany, limed oak or walnut. 77 lbs.

20 HF 682. *Specify Finish.* ONLY.....244.50

STEREO MULTIPLEX FM-PHONO SYSTEM. Save \$103.67. All components of above system plus H. H. Scott 350 Stereo FM Tuner with multiplex circuit; and metal case. Complete with record and all extras. 95 lbs.

20 HF 683. *Specify Finish.* ONLY.....414.95



H. H. Scott 222-C  
44-Watt Stereo  
Amplifier with  
Metal Case

Garrard AT6 Auto-  
matic Turntable  
and Base Shure



Shure M7D  
Cartridge,  
Diamond  
Needle



2—Electro-Voice  
LT-12 12" 3-Way  
Speakers

H. H. Scott 350



## 30-Watt Stereo FM-AM-Phono System

FEATURING PILOT STEREO FM-AM RECEIVER

SYSTEM PRICE

**\$409.95**

No Money Down

SAVE \$100.03 OVER THE COST OF COMPONENTS PURCHASED SEPARATELY. Superb-quality stereo in this matched and balanced custom ensemble. System includes Pilot 602S Stereo Multiplex Receiver with Metal Case; Garrard AT6 Automatic Turntable and Base; Empire 108 Cartridge with Diamond Needle; and 2—Jensen H-222 12" Coaxial Speakers. You also get a dazzling demonstration record that really shows off your system; and all exclusive Allied music system extras. Pilot receiver consists of 30-watt stereo amplifier and FM-AM tuner. Sensitive FM section has built-in multiplex for thrilling stereo reception. AT6 changer and Empire cartridge get the most out of your records. Install the Jensen speakers in your own cabinets or "in-the-wall." Have 1 1/4-lb. magnet for marvelous bass response. Changer base in mahogany, limed oak or walnut. 75 lbs.

20 HF 681. *Specify Finish.* ONLY.....409.95

Express Shipment Recommended for Hi-Fi Systems

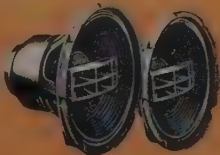


Pilot 602S 30-Watt  
Stereo Multiplex  
Receiver with  
Metal Case

Garrard AT6  
Automatic Turntable  
and Base; Empire  
108 Cartridge



2—Jensen H-222  
12" Coaxial Hi-Fi  
Speakers





## FAMOUS-NAME COMPONENTS

### 40-Watt Stereo FM-AM-Phono System

FEATURING BOGEN STEREO FM-AM RECEIVER

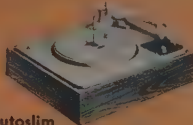
SYSTEM PRICE: SAVE \$86.10 OVER THE COST OF COMPONENTS PURCHASED SEPARATELY. A splendid stereo showcase highlighting convenient, centralized control and full flexibility. System includes: Bogen RP-200 Stereo Multiplex FM-AM Receiver and Metal Case; Garrard Autoslim 4-Speed Record Changer and Base; Pickering 380-C Stereo Cartridge with Diamond Needle; and 2—Electro-Voice LS-12 12" Hi-Fi Speakers. You also get our special 12" stereo demonstration record, and the entire array of exclusive Allied music system extras. Bogen's receiver includes two 20-watt channels; precision FM section with built-in multiplex circuit for reception of stereo FM broadcasts; complete AM coverage, too. Garrard changer and Pickering cartridge are a popular hi-fi combination. E-V's speakers are less than 4" deep for convenient installation "in-the-wall" or in cabinets you've built yourself. Changer base in mahogany, limed oak or walnut. Shpg. wt., 65 lbs.

No Money Down

20 HF 684. *Specify Finish.* ONLY.....339.95



Bogen RP-200  
Multiplex  
FM-AM  
Receiver



Garrard Autoslim  
Record Changer and  
Base; Pickering  
380-C Cartridge



2—Electro-Voice  
LS-12 12" Hi-Fi  
Speakers

### Deluxe 65-Watt Stereo FM-Phono System

FEATURING FISHER 500-B STEREO FM RECEIVER

SYSTEM PRICE: SAVE \$130.03 OVER THE COST OF COMPONENTS PURCHASED SEPARATELY. Selected by Allied's audio staff to provide the ultimate in stereo listening, this deluxe custom component array is a rare value. System includes: Fisher 500-B Stereo Multiplex FM Receiver; Garrard Type "A" Automatic Turntable and Base; Empire 108

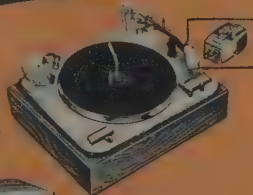
Stereo Cartridge with Diamond Needle; and 2—Jensen TF-3 Unfinished Shelf Speaker Systems. To add to your enjoyment, you receive Allied's special stereo demonstration record; plus all other system extras. Fisher's 500-B receiver has built-in multiplex circuit for reception of stereo FM broadcasts; 32 1/2-watt-per-channel output for flawless reproduction of every music source. Type "A" pampers your records, Empire cartridge tracks flawlessly. Jensen speaker systems are ready for applying the finish of your choice. Amplifier less case. Changer base in mahogany, limed oak or walnut. Shpg. wt., 134 lbs.

20 HF 680. *Specify Finish.* ONLY.....509.95  
20 HF 687. As above, but with speaker systems in oiled walnut. *Save \$140.03.* ONLY.....539.95



Fisher 500-B  
Multiplex  
FM Receiver

Garrard Type "A"  
Automatic Turntable  
and Base; Empire  
108 Stereo Cartridge



2—Jensen TF-3  
Shelf-Size  
Speaker  
Systems

#### YOU GET THESE EXTRAS WITH EVERY ALLIED HI-FI SYSTEM

- 12" Demonstration Record
- Record & Needle Care Book
- Speakers Mounted
- All Cables and Connectors
- Record & Tape Catalog
- Pre-Set Stylus Pressure
- 2—15-Ft. Speaker Cables
- System Instruction Book

NO MONEY DOWN on any Allied Music System on our Credit Fund Plan. Take up to 24 months to pay.

HOME TRIAL, MONEY-BACK GUARANTEE with any Allied Music System. Your complete satisfaction is absolutely guaranteed by Allied.

#### SAVE! SELECT YOUR OWN HI-FI SYSTEM ... AND GET A BIG SYSTEM DISCOUNT

Allied will give you a big discount on a music system made up of components you've selected yourself. Study the pages of this catalog where individual components are described—make a list of the units you prefer—then send it to our Audio Division, asking for a price quotation. Our experts will review the system for proper matching of components to assure you of peak performance. Your inquiry will be promptly answered by return mail—and you're under no obligation. And of course, all customer-selected hi-fi music systems include all of Allied's FREE system extras.

**WRITE TODAY FOR A PROMPT, MONEY SAVING QUOTATION**

Get Your System on Allied's Credit Fund Plan



# H.H. SCOTT

## Distinguished Hi-Fi Components



**MULTIPLEX**

### NEW Model 350 Stereo FM Multiplex Tuner

LESS CASE

**\$19995**

NO MONEY DOWN

Moderately priced, all-new wide-band FM multiplex stereo tuner designed to give outstanding reception of FM and stereo FM broadcasts. The realism of stereophonic sound lets you enjoy the world's finest music in its full dimensions—reproduced with professional quality in your home. The multiplex section of this tuner has the same circuitry and features as the self-powered multiplex adapter on opposite page. Includes many exclusive features to enable it to meet with outstanding success the many demands imposed by stereo FM multiplex. Wide-band design of the 350 gives unparalleled frequency and dynamic range with unbelievably low distortion and noise even on weak signals. It is absolutely drift-free without AFC. This new wide-band tuner, by its very design, is more able to receive weak, fully modulated signals without bothersome noise and distortion. The virtually flat frequency response out to 75 kc of its wide-band detector means that the full frequency and dynamic ranges of FM multiplexed broadcasts can be enjoyed. The Model 350 displays remarkable ability in pulling in weak-signal FM stations and its selectivity is more than adequate to separate even a weak station signal adjacent to a strong one. It features silver plated front end with wide-band circuitry for optimum sensitivity throughout the FM broadcast range. Subcarrier noise filter permits improved quieting without affecting system's frequency response. Quieting in stereo performance is accomplished without altering channel separation. Less case, below. Size, 5 1/4 x 15 1/2 x 13 1/4". For 89 SU 138. No Money Down. NET.....

94 SX 577. Type C Metal Case. Simulated leather finish. Wt. 1 1/2 lbs. NET..... 12.95

TYPE CW WOOD CASE. In mahogany or oiled walnut. Shpg. wt., 5 lbs.

85 SX 555C. Specify Finish. NET..... 19.95

### SPECIFICATIONS

**IHF M Sensitivity:** 2.5  $\mu$ v for —30 db hum, noise and distortion. 1  $\mu$ v for 20 db quieting using balanced 72 ohm antenna.

**Frequency Response:** Virtually flat out to 75,000 cps for true wide-band reception.

**FM Detector Bandwidth:** 2 mc.

**Main FM Carrier Circuit:** 150 kc IF bandpass

**Controls:** Selector (Off, Monophonic FM, Stereo FM Multiplex with Filter, Stereo Multiplex without Filter), Stereo Noise Filter, AC (Mono Multiplex); Level.

**Outputs:** Stereo outputs to amplifier and tape recorder.

**Vernier Tuning:** Illuminated tuning dial.

### Model 222-C 44-Watt Deluxe Stereo Amplifier

LESS CASE

**\$14995**

NO MONEY DOWN

**UNUSUAL FLEXIBILITY  
AT A MODEST PRICE**



- Extreme Versatility for Hi-Fi Systems
- Heavy-Duty Output Transformers
- Tone and Balance Controls for Each Channel
- Undistorted Amplification of Audio Signals

Improved, more versatile version of Scott's moderately priced 222-B stereo amplifier, the new Model 222-C provides more power and better high-fidelity specifications. Delivers full 22 watts-per-channel for 44 watts of stereo or monophonic sound; can be used to drive even low-efficiency speaker systems. Employs new oversized output transformers for vast improved bass response and virtually unmeasurable distortion even when playing at full volume. Tape monitor switch permits monitoring of tape recording as they are being made (when used with tape recorder having separate record and playback heads). Has an extra high-level stereo input, in addition to inputs for all regular music sources, for feeding TV sound through the 222-C, or for adding another high-level source to your music system—record player with crystal or ceramic cartridge.

Other features include jack on front panel for accepting stereo headset; separate bass and treble for each channel; unique balancing feature that lets you bring both channels into proper, equal loudness quickly and easily. **IHF M Music Power Output:** 44 watts; 22 watts per channel. **Response:** flat from 20 to 30,000 cps. **Hum & Noise:** —80 db. **Distortion:** Harmonic, 0.8% at full rated power; IM, 0.3%. **Controls:** Input Selector (Phono or Tape Head, Tuner, Extra); Function Selector (Balance Channel A, Balance Channel B, Monophonic Records, Stereo, Reverse Stereo, Channel A Monophonic, Channel B Monophonic); Bass Channel A; Treble Channel A; Bass Channel B; Treble Channel B; Stereo Balance; Loudness/Off-On; Volume/Loudness; Scratch Filter; Loudness Compensation switch. Employs four 7189 audio output tubes; DC on preamp filaments for low noise. **Output Impedances:** 4, 8 and 16 ohms each channel. Size, 4 3/4 x 15 1/2 x 12 1/2". Less case, below. Traditional Scott brushed-brass panel styling. For 105-125 v., 50-60 cycle AC. Shpg. wt., 25 lbs.

89 SU 140. No Money Down. NET..... 149.95

TYPE C METAL CASE FOR ABOVE. Simulated leather finish. 1 1/2 lbs. 94 SX 577. NET..... 12.95

TYPE CW WOOD CASE FOR 222-C. Available in mahogany or oiled walnut. Shpg. wt., 5 lbs.

85 SX 555C. Specify Finish. NET..... 19.95



# Superior Quality and Excellence By

**H.H. SCOTT**

H. H. Scott components are exquisitely styled to complement modern, provincial, or early American decor. Each is designed to facilitate custom mounting or may be installed in the cases listed here.



## TUNER FEATURES

- Wideband FM Circuit Design
- Stereo FM Multiplex
- Planetary Tuning Mechanism, Illuminated Lucite Dial
- Tuning Indicator
- Tape Recorder Outputs
- Output Level Controls

LESS CASE

**\$224.95**

NO MONEY DOWN

**72**  
WATTS

Clean Power

Drive Any Speaker

Tape Monitoring

Output

Center-Channel

Output

## Model 299-C 72-Watt Stereo Amplifier

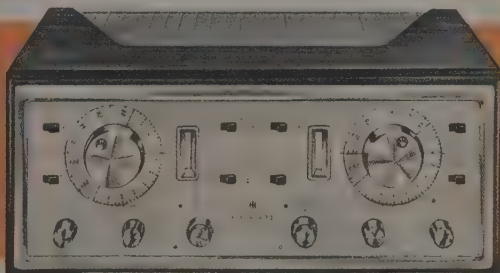
A deluxe unit, designed to accommodate every existing signal source. Has center-channel output; separate bass and treble controls for each channel; master volume control with loudness-volume switch; phase reversal switch; and tape monitor provision. Also features: scratch and rumble filters; two low-level magnetic inputs that allow you to connect a stereo tape deck to the 299-C as well as stereo cartridges. **Controls:** Selector (Balance A, Balance B, Stereo, Reverse Stereo, Monophonic Records, Channel A, Channel B); Bass and Treble for Channel A; Bass and Treble for Channel B; Balance; Loudness; Tape Monitor switch; Rumble Filter; Loudness-Volume; Scratch Filter; Channel A and Channel B Magnetic Inputs 1 and 2; Power Off-On; Phase Reverse; Input Selector (Eur 78, NAB Tape, Ortho RIAA, Tuner, Extra). **Response:** flat from 20 to 30,000 cps. **Output:** 36 watts per channel. **Hum:** -80 db. **Output Impedance:** 4, 8 and 16 ohms per channel; center-channel output. **Size:** 4 5/8 x 15 1/4 x 12 1/2". **Less case, below.** For 105-125 v., 50-60 cycle AC. **Wt., 25 lbs.**

89 SU 141. No Money Down. NET.....224.95  
94 SX 577. Type C Metal Case. Simulated leather finish. 3 lbs. NET.....12.95  
85 SX 555C. Type C Wood Case. Specify mahogany or oiled walnut. 5 lbs. NET.....19.95

## AMPLIFIER FEATURES

- Advanced Hi-Fi Engineering
- DC on Preamplifier Tubes
- Center-Channel Output
- Signal Lights to Indicate Mode of Operation
- Electronic Crossover Use
- Scratch, Rumble Filters
- Handsome, Custom Styling

Two deluxe stereo components—a sensitive tuner with separate, wide-band FM and wide-range AM sections; plus an unexcelled stereo amplifier



## Model 399 FM-AM Tuner/40-Watt Amplifier

LESS CASE

**\$399.95**

NO MONEY DOWN

A masterpiece of high fidelity engineering, the 399 includes many features that recommend it to the discerning audiophile: single chassis design to permit easy custom installation; all controls centralized on the front panel for simplified system operation; and the combination of two of Scott's most renowned components into a single instrument. **Tuner Features:** heavily silver-plated FM front end for maximum sensitivity and reliability; separate, sensitive AM front end; separate FM and AM professional tuning controls for precise station selection; wideband FM detector design for distortion-free reception of even the weakest signals; separate tuning eyes for FM and AM; switching provisions for FM multiplex stereo or FM-AM stereo; wide-range AM detector design for hi-fi performance on AM stations.

**Amplifier Features:** provision for connecting stereo phono cartridge and stereo tape heads or two phono cartridges; 40-watt power stage phase reverse switch to compensate for improperly phased tape recordings or speakers; third channel output; special switching to permit use of stereo pickup on monophonic records; special balancing circuit for quick and accurate balancing; complete switching facilities for tape recording and monitoring; separate record scratch and rumble filters; separate bass and treble controls on each channel; ten stereo inputs (5 pairs); indicator lights to show mode of operation; and many more. **Size:** 6 3/4 x 16 1/4 x 13 3/4". **Less case, below.** For 105-125 v., 50-60 cycle AC. **Wt., 40 lbs.**

89 SZ 354. No Money Down. NET.....399.95

TYPE F WOOD CASE. In mahogany or oiled walnut. Shpg. wt., 8 lbs.  
85 SX 556C. Specify Finish. NET.....29.95

## 335 Multiplex Adapter

LESS CASE

**\$99.95**

NO MONEY DOWN

Designed to provide the ultimate in multiplex stereo reception when used with any Scott wide-band tuner. **Controls:** Selector (Off, Monophonic with noise filter, and Stereo without noise filter positions) Level, and Adapter defeat which allows you to bypass adapter during conventional broadcasts. Adapter is self-powered—no need for taking power from your tuner. All connections between tuner and adapter are external—just plug-in for stereo multiplex FM reception. For use with all Scott wide-band tuners only. **Size:** 5 1/4 x 7 1/4 x 13". **Less case listed below.** For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 8 lbs.

89 SU 131. No Money Down. NET 99.95

89 SX 132. Metal Case. 2 lbs. NET. .9.95

89 SX 133. Walnut Case. 4 lbs. NET 14.95

# H.H. SCOTT

## NEW! Model 296 96-Watt Stereo Amplifier

### THE ULTIMATE IN SCOTT AMPLIFIERS



- Superior Construction and Design—Every Desirable Control
- Oversize Output Transformers
- Full 96-Watt IHFM Music Power
- Every Conceivable Input Facility
- Includes Center-Channel Output
- Tone Control for Each Channel

#### UNIQUE "EXTRA" FEATURES

Low-impedance stereo headphone output conveniently located on front panel.

Front panel input level control for phono cartridges and tape heads.

"Dynaurl Rumble Suppressor" removes rumble without affecting music frequency response.

LESS CASE  
**\$299<sup>95</sup>**

NO MONEY DOWN

outputs on rear. Tape recorder facilities include: recorder outputs; playback input (monitor); front panel tape monitor switch; NARTB-equalized tape head inputs. Huge transformers assure exceptionally stable low-frequency response—transformers weigh over 30 lbs. Preamplifier tube heaters are DC-operated to eliminate virtually all hum. Attractive, jeweled signal lights indicate mode of operation. **IHFM Power Output:** 48 watts per channel. **Frequency Response:**  $\pm 1$  db, 20-20,000 cps. **Harmonic Distortion:** 0.8% at full output. **IM Distortion:** 0.3%. **Hum and Noise:** -80 db. **Speaker Output Impedances:** 4, 8 and 16 ohms. **Tubes:** 4—7581A, 2—5AR4, 2—7199. 6—12AX7, 1—6BL8. Size,  $5\frac{1}{2} \times 1 \times 15\frac{1}{2}$ ". Less case, below. For 105-125 v., 50-60 cycle AC. Shpg. wt., 50 lbs.  
**89 SZ 142. No Money Down. NET. 299.95**  
**85 SX 564. Type G Metal Case. Shpg. wt., 1 lb. NET. 17.95**  
**85 SX 565C. Type G Wood Case. Specify Mahogany or Oiled Walnut. 6 lbs. 29.95**

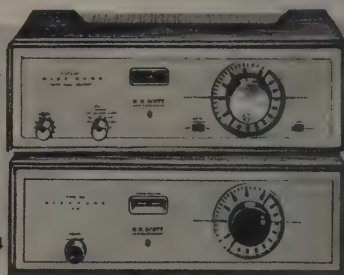
#### FAMOUS H. H. SCOTT COMPONENTS ...



330-D



99-D



310-D

314

#### 330-D WIDEBAND FM-AM TUNER

Deluxe tuner with separate AM and FM sections. Features professional-instrument tuning controls for vernier and fast tuning; illuminated tuning and signal strength meter for precision tuning of very weak stations; copper-clad aluminum chassis for highest sensitivity and efficiency; special case design for simplified custom mounting.

**FM Section:** Silver-plated front-end provides sensitivity of  $2\frac{1}{2} \mu\text{v}$  (IHFM standard) and  $1 \mu\text{v}$  for 20-db quieting with 72-ohm antenna. Wide-band circuit for full-range no-drift performance—employs 150-kc IF passband, 2-mc detector band-width, 2 stages of full limiting, 80 db rejection of spurious response. **AM Section:**  $1 \mu\text{v}$  sensitivity for top "pickup power"; detector design prevents high-frequency distortion even at highest modulation percentages. 10-kc whistle filter. 4-volt audio output for 100% modulation. Choice of 3 IF band-width positions. Jacks permit tape recording and addition of model 335 stereo multiplex adapter. Four front-panel controls. Separate AM and FM level controls on rear of chassis. 11 tubes; 2 diodes; rectifier,  $4\frac{1}{2} \times 15\frac{1}{2} \times 12\frac{1}{2}$ ". Less case, below. For 105-125 v., 50-60 cycle AC. Wt., 17 lbs.  
**92 SU 897. NET. 219.95**

**94 SX 577. Metal Case. 1½ lbs. NET 12.95**

**85 SX 555C. Wood Case. Specify Mahogany or Oiled Walnut. 5 lbs. NET. 19.95**

#### 99-D 22-WATT AMPLIFIER

Versatile monophonic amplifier featuring: "Quik-Set" control settings; speaker switch for selecting either of two speakers or both speakers at once; tape recorder monitor-playback switch for use with 3-head recorders; recorder output and monitoring jacks; input selector switch for two magnetic pickups. **Response:** Flat from 20-20,000 cps. **Harmonic Distortion:** less than 0.8%. **Hum:** -80 db. **Impedances:** 4, 8 and 16 ohms. **Controls:** Selector-Equalizer; Mag 1 or 2; Rumble Filter; Scratch Filter; Volume-Loudness; Input Level; Bass; Treble; Off-On.  $4\frac{1}{2} \times 15\frac{1}{2} \times 12\frac{1}{2}$ ". Less case. For 105-125 v., 50-60 cycle AC. Shpg. wt., 20 lbs.  
**94 SU 582. NET. 114.95**

**94 SX 577. Metal Case. 1½ lbs. NET. 12.95**

**85 SX 555C. Wood Case. Specify Mahogany or Oiled Walnut. Wt., 5 lbs. NET. 19.95**

#### 310-D WIDEBAND FM TUNER

Deluxe tuner featuring advanced, wideband design for brilliant, exciting FM reception—absolutely drift-free; virtually immune to interference. All critical parts silver-plated for maximum gain. Includes "dynaurl" interstation noise suppressor; two feedback stages for minimum audio distortion. 3 stages of full limiting. **Sensitivity:**  $2 \mu\text{v}$  (IHFM standard);  $\frac{3}{4} \mu\text{v}$  for 20 db quieting with 72-ohm antenna. Has illuminated tuning meter and distant-local switch. Provision for addition of model 335 multiplex adapter.  $4\frac{1}{2} \times 15\frac{1}{2} \times 12\frac{1}{2}$ ". Less case, below. For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 13 lbs.  
**89 SU 865. NET. 194.95**

**94 SX 577. Metal Case. 1½ lbs. NET 12.95**

**85 SX 555C. Wood Case. Specify Mahogany or Oiled Walnut. Wt., 5 lbs. NET. 19.95**

#### MODEL 314 WIDEBAND FM TUNER

Moderately priced FM tuner. Wideband circuitry provides noise-free reception with remarkable clarity and realism. Circuit features 150-kc passband, 2-mc detector band-width, and two stages of full limiting. 80 db rejection of spurious response from cross-modulation by strong local signals. Silver-plated RF section for sensitivity of  $2 \mu\text{v}$  (IHFM standard);  $1 \mu\text{v}$  for 20 db quieting with matched 72-ohm antenna. Easy-action dial mechanism allows vernier or fast tuning.

Circuit includes 5 tubes, 2 diodes, rectifier plus tuning eye. Size,  $4\frac{1}{2} \times 5\frac{1}{2} \times 12\frac{1}{2}$ ". Less case, listed below. For operation from 105-125 v., 50-60 cycle AC. Wt., 10 lbs.  
**89 SU 441. NET. 119.95**

**METAL CASE. Shpg. wt., 1½ lbs.**

**94 SX 577. NET. 12.95**

**WOOD CASE. Specify mahogany or oiled walnut finish. Shpg. wt., 5 lbs.**

**85 SX 555C. NET. 19.95**



# H. H. SCOTT Hi-Fi Components... NOW IN KIT FORM!



LK-72



LT-110

MULTIPLEX

## 80-WATT STEREO AMPLIFIER KIT

LESS CASE

**\$159.95**

NO MONEY DOWN

MODEL LK-72. Enjoy all the advantages of famous H. H. Scott quality by assembling this outstanding amplifier—yours in economical kit form. Versatile controls give you full command of its extraordinary reproduction characteristics. Includes DC-operated preamp filaments for minimum hum; level control for optional center channel; and tape monitoring provisions. **Frequency Response:**  $\pm 1$  db, 20-20,000 cps. **Harmonic Distortion:** 0.8%, 1M: 0.3%. **Hum:** -80 db. **Controls:** Input Selector; Equalization; Stereo Selector; 2-Bass and 2-Treble; Stereo Balance; Loudness; Scratch Filter; Loudness Compensation.  $4\frac{1}{2} \times 15 \times 12\frac{1}{2}$ ". Less case. For 105-125 v., 50-60 cycle AC. 23 lbs.

89 SZ 843. NET.....**159.95**

94 SX 577. Metal Case.  $1\frac{1}{2}$  lbs. NET **12.95**

85 SX 555C. Wood Case. Specify Mahogany or Oiled Walnut. 5 lbs. NET.....**19.95**

## STEREO FM MULTIPLEX TUNER KIT

LESS CASE

**\$159.95**

NO MONEY DOWN

MODEL LT-110. Versatile FM tuner kit complete with built-in multiplex circuit for reception of stereo FM broadcasts. Employs the same silver-plated front end and wide-band circuitry used in factory-assembled H. H. Scott tuners. Front end and multiplex section are pre-mounted at factory; pre-wired and pre-aligned. Illuminated tuning meter. Circuit features 3 stages of IF and 2 full limiting stages with 2-mc detector bandwidth. **IHF M Sensitivity:** 2.2  $\mu$ v. 10 tubes and 11 diodes.  $4\frac{1}{2} \times 15 \times 12\frac{1}{2}$ ". Less case. For 105-125 volts, 50-60 cycle AC. 15 lbs.

89 SZ 099. NET.....**159.95**

MODEL LT-10 TUNER KIT. As above, less multiplex section. Multiplex output, 10 lbs.

89 SZ 848. NET.....**99.95**

94 SX 577. Metal Case.  $1\frac{1}{2}$  lbs. NET **12.95**

85 SX 555C. Wood Case. Specify Mahogany or Oiled Walnut. 5 lbs. NET.....**19.95**

Carefully engineered H. H. Scott kits incorporate handy techniques to add to the ease of building...

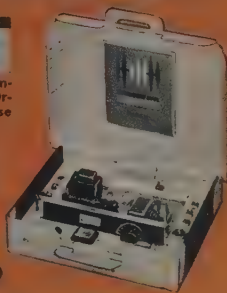
Cards Numbered in Order of Use



Card-Mounted Parts

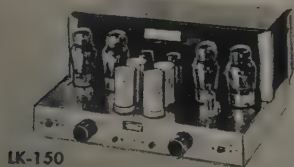


All Wire Pre-Stripped and Color-Coded



Kit features: Container opens to become work area... All mechanical parts pre-vented to chassis... Instruction books printed in full color for easier parts identification.

## LATEST H. H. SCOTT HI-FI KITS...



LK-150

## 130-WATT BASIC AMPLIFIER KIT

MODEL LK-150. Deluxe stereo basic amplifier kit for use in the finest quality home music systems. Delivers tremendous 65-watt-per-channel IHFM power output for a total of 130 watts. Features oversize, 40-lb. output transformers for virtually flawless low-frequency response; conservatively rated components for high reliability; and non-magnetic electrolytic aluminum chassis for rapid heat dissipation. Sub-sonic rolloff filter prevents power waste due to sub-audible rumble or acoustic feedback.

Power bandwidth from below 19 cps to above 25,000 cps. **Hum:** -90 db. **Harmonic Distortion:** less than 0.5% at full output. Input sensitivity is switchable from 2.5 volts to 1.5 volts permitting use with any stereo preamplifier. Includes built-in meter that allows you to make bias adjustments. Unit uses 6550 output tubes that run at only 65 watts, although rated at 100 watts.

You'll immediately recognize the superb performance of this top-quality component; and you'll appreciate its functional, compact styling that reduces placement problems. Unit is perfectly matched to the LC-21 Stereo Preamplifier Kit, listed at right. Supplied complete with ventilated case. Size,  $7\frac{1}{2} \times 15 \times 11\frac{1}{4}$ ". For 105-125 volts, 50-60 cycle AC. Shpg. wt., 52 lbs.

89 SZ 128-2. NET.....**169.95**



LC-21

## STEREO PREAMPLIFIER KIT

MODEL LC-21. Deluxe control center with facilities for every mode of monophonic and stereo operation. Makes an ideal companion to the LK-150 Stereo Basic Amplifier Kit, at left. Features unique shielding of the power supply stage, non-magnetic electrolytic aluminum chassis and DC-heated tubes for extremely low hum and noise and rapid dissipation of heat.

**Front-Panel Controls:** Input Selector (RIAA, NAB Tape, Tuner, Microphone, Extra); Stereo Selector (Balance A, Balance B, Monophonic, Stereo, Reverse Stereo, Channel A, Channel B); Channel A Treble; Channel A Bass; Channel B Treble; Channel B Bass; Stereo Balance; Derived Center; Channel Level; Loudness; Magnetic Pickup 1 & 2; Tape Monitor; Rumble Filter; Scratch Filter; Phase Reverse; Volume-Loudness. **Frequency Response:**  $\pm 1$  db, 8-50,000 cps. **Distortion:** 0.1% at 2.5 volts output. Matches input sensitivity of LK-150. Has attractive dark-brown panel complemented by tasteful polished gold edge. Size,  $5\frac{1}{2} \times 15 \times 13\frac{1}{4}$ ". Less case, listed below. For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 10 lbs.

89 SU 127. NET.....**99.95**

94 SX 577. Metal Case.  $1\frac{1}{2}$  lbs. NET **12.95**

85 SX 555C. Wood Case. Specify Mahogany or Oiled Walnut. 5 lbs. NET.....**19.95**



LK-48

## 48-WATT STEREO AMPLIFIER KIT

MODEL LK-48. Moderately priced stereo amplifier-control center that delivers 24 watts per channel for a total 48-watt output (IHFM). Includes facilities for every stereo or monophonic music source. Among its numerous outstanding features: uses electrolytic aluminum chassis and DC-heated preamplifier filaments for low hum and noise and rapid heat dissipation.

**Front Panel Controls:** Input Selector (RIAA, Tuner, Extra); Tape Monitor; Stereo Selector (Balance A, Balance B, Monophonic, Stereo, Reverse Stereo, Channel A, Channel B); Channel A Treble; Channel A Bass; Channel B Treble; Channel B Bass; Stereo Balance; Loudness; Equalization (RIAA, Tape); Scratch Filter; Volume-Loudness. **Frequency Response:**  $\pm 1$  db, 20-20,000 cps. **IHF M power bandwidth** extends from 19 to 20,000 cps. **Harmonic Distortion:** 0.8% at full output. **Hum and Noise:** -80 db.

Styled in contrasting dark brown and polished gold, the LK-48 matches both the LT-110 and LT-10 tuners in size and color. Size,  $4\frac{1}{2} \times 15 \times 12\frac{1}{2}$ ". Less case, listed below. For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 19 lbs.

89 SZ 139. NET.....**119.95**

94 SX 577. Metal Case.  $1\frac{1}{2}$  lbs. NET **12.95**

85 SX 555C. Wood Case. Specify Mahogany or Oiled Walnut. Wt., 5 lbs. NET.....**19.95**



# FISHER

## A Living Tradition of Excellence and Quality



Model FM-100-B

**MULTIPLEX**

### New FM-100-B Stereo Multiplex FM Tuner

**NET**  
**\$229<sup>50</sup>**  
**LESS CASE**  
 Designed for the discriminating listener—incorporates complete multiplex circuit for stereo FM listening, plus superior wide-band design. Circuitry features high-sensitivity golden cascade front end for FM sensitivity of 0.6 microvolt (IHFM sensitivity, 1.8  $\mu$ v). Five wide-band IF stages and 4 limiters, assure high gain with excellent selectivity and limiting on FM reception. Wide-band ratio detector, using matched pair of germanium diodes, suppresses random noise and impulses for flawless FM listening.

"Stereo-Beam" indicates stations transmitting stereo programs. Front-panel switch selects stereo or monophonic FM; Fisher's IF muting circuit eliminates annoying hiss between stations on either stereo or monophonic programs. Has local-distant switch; dual rear-panel controls permit setting of output levels; specially filtered dual output jacks are provided for making flawless stereo tape recordings. *Rated Audio Output Level:* 2 volts for 74 kc modulation. Size,  $4\frac{1}{2} \times 15\frac{1}{2} \times 13$ ". Less case, below. For 105-125 v., 50-60 cycle AC. Shpg. wt., 20 lbs.

85 SU 601. No Money Down. NET..... **229.50**  
 89 SX 125. MC-2 Metal Case. Wt., 7 lbs. NET..... **15.95**  
 92 SX 838C. 10-U Wood Case. Specify choice of mahogany or walnut. Shpg. wt., 6 lbs. NET..... **24.95**



FM-50B

**MULTIPLEX**

### New FM-50B Stereo Multiplex FM Tuner

**NET**  
**\$189<sup>50</sup>**  
**LESS CASE**  
 An up-to-the-minute version of the FM-50, now with built-in multiplex circuit for stereo FM broadcasts. Excellent sensitivity and wide-band circuit design assure outstanding performance in regular FM or stereo FM reception. Employs four IF stages for extremely high sensitivity and selectivity with minimum distortion. Wide-band ratio detector (1-mc bandwidth), for maximum noise suppression and lowest possible distortion. Three fast-acting limiters assure excellent capture ratio for suppression of all types of interference and rejection of unwanted signals. Automatic gain control maintains desired volume level at all times, whether on weak or strong stations.

Sensitivity switch with local and distant positions adapts the FM-50B to all receiving conditions. Controls include: Selector for FM reception, stereo multiplex FM reception; 2-position Noise Filter; "Stereo-Beam" indicator to show when stations are broadcasting FM multiplex; two output level-sets on rear panel. *Usable (IHFM) Sensitivity:* 2.2 microvolts for 20 db quieting. *5 Outputs:* Two Main, Two Recorder, one Multiplex. Size,  $4\frac{1}{2} \times 15\frac{1}{2} \times 12$ ". Less case, below. For operation from 105-120 v., 50-60 cycle AC. Shpg. wt., 14 lbs.

85 SU 600. No Money Down. NET..... **189.50**  
 89 SX 125. MC-2 Metal Case. Simulated leather. 7 lbs. NET **15.95**  
 92 SX 838C. 10-U Wood Case. Specify choice of mahogany or walnut. Shpg. wt., 6 lbs. NET..... **24.95**



Model X-101B

### New X-101B 52-Watt Stereo Amplifier

**NET**  
**\$189<sup>50</sup>**  
**LESS CASE**  
 Newest amplifier in the famous Fisher line, this superb unit offers full 52-watt power output plus a wide range of stereo controls. Includes a center power output for direct connection of center channel or remote speaker—may be switched on or off from front panel. Exclusive tape monitor-playback facility permits tape recordings to employ all controls of the X-101B during tape playback, including tone controls, without changing monitoring connections. Stereo dimension control regulates stereo channels to compensate for room acoustics or wide separation between speakers. Has front panel level controls for added convenience in balancing and setting phono or tape head inputs; 7-pos. stereo-mono switch for any mode of operation, plus left and right speaker balance; loudness contour switch; separate tone controls for each channel; phase reverse switch; 7 pairs of input jacks; and more. *IHFM Music Power Output:* 52 watts. *Response:*  $\pm 1$  db. 20-20,000 cps. *Hum & Noise:* -90 db. *Output Impedances:* 4, 8 and 16 ohms. Size,  $4\frac{1}{2} \times 15\frac{1}{2} \times 10\frac{1}{2}$ ". Less case, below. For 105-120 v., 50-60 cycle AC. Shpg. wt., 23 lbs.

89 SU 135. No Money Down. NET..... **189.50**  
 89 SX 125. MC-2 Metal Case. Wt., 7 lbs. NET..... **15.95**  
 92 SX 838C. 10-U Wood Case. Specify choice of mahogany or walnut. Shpg. wt., 6 lbs. NET..... **24.95**



Model X-100

### X-100 36-Watt Stereo Amplifier

**NET**  
**\$159<sup>50</sup>**  
**LESS CASE**  
 A splendid example of precise design and top-quality engineering, the X-100 contains all the controls and facilities that you need for complete enjoyment of any stereo or monophonic program source. Gives you 36 watts of flawless sound, totally free of audible hum, noise and distortion; and the preamplifier sections feature 14 input jacks (7 pairs) to accommodate every known signal source. Seventeen front panel controls and switches permit adjusting volume, balance and tonal characteristics to any desired degree. Control features include: record-monitor switch for hearing the sound being recorded on tape; center channel output, controlled by separate off-on switch, which provides a composite stereo signal for driving a third amplifier and speaker system; Master volume control; loudness switch; NARTB and RIAA equalization; independent, concentric bass controls—one for each channel; independent, concentric treble controls—one for each channel; wide-range balance control; scratch and rumble filters; phono level controls; and more. *IHFM Music Power Output:* 36 watts. *Response:*  $\pm 1$  db. 20-20,000 cps. *Hum & Noise:* -90 db. *Output Impedances:* 4, 8 and 16 ohms. Size,  $4\frac{1}{2} \times 15\frac{1}{2} \times 11\frac{1}{2}$ ". Less case, below. For 105-120 v., 50-60 cycle AC. Shpg. wt., 25 lbs.

89 SU 435. No Money Down. NET..... **159.50**  
 89 SX 125. MC-2 Metal Case. Simulated leather. 7 lbs. NET **15.95**  
 92 SX 838 C. 10-U Wood Case. Specify choice of mahogany or walnut. Shpg. wt., 6 lbs. NET..... **24.95**





Model 500-B

MULTIPLEX

## New 500-B Stereo Multiplex FM Receiver

NET  
**\$359<sup>50</sup>**  
LESS CASE

On a single deluxe chassis, you get a highly sensitive FM tuner with latest stereo FM multiplex circuit, plus a stereo amplifier that gives you 65 watts of music power! Tuner circuit employs phase-linear, wide-band design for lowest distortion and highest stereo separation throughout the entire audio band. Has special noise filter to reduce hiss and background noise during reception of FM stereo multiplex programs without affecting frequency response. Also has four IF stages for increased dynamic range, high selectivity and better signal-to-noise ratio. "Stereo Beam" tuning eye tells you whether the FM station you're tuned in on is broadcasting monophonically or stereophonically. *IHF*M Sensitivity: 2.2 microvolts.

**Amplifier Section.** *IHF*M/Music Power Output: 65 watts. Response: overall, 25 to 25,000 cps; amplifier,  $\pm 1\frac{1}{2}$  db, 5-45,000 cps. *Hum & Noise*: -85 db. *Harmonic Distortion*: 0.5% at rated power. Front panel has 7 controls and 6 switches; 17 inputs and output jacks on rear panel to accommodate every conceivable stereo and monophonic program source. Size,  $5\frac{3}{4} \times 17\frac{1}{2} \times 13\frac{3}{4}$ ". Less case, below. For 105-120 v., 50-60 cycle AC. Wt. 31 lbs.

85 SU 603. No Money Down. NET.....**359.50**  
85 SX 568C. Model 30-U Wood Case. For above. Specify mahogany or oiled walnut veneer. Shpg. wt., 9 lbs. NET EACH.....**24.95**



Model 800-B

MULTIPLEX

## New 800-B Stereo Multiplex FM-AM Receiver

NET  
**\$429<sup>50</sup>**  
LESS CASE

A convincing example of timely engineering, the new 800-B offers: flawless stereo multiplex reception, monophonic FM reception, and AM reception; complete audio control and input facilities; and a husky 65 watts of power. Incorporates every desirable feature for clean FM reception, either monophonic or stereophonic—phase-linear, wide-band circuitry; three IF stages; front-panel noise filter to reduce hiss and background noise during stereo multiplex broadcasts; and tuning eye to indicate "on-station" tuning during regular FM broadcasts, and "Stereo Beam" to tell you when the station of your choice is broadcasting stereophonically. Sensitive AM section of the tuner has separate tuning eye. *IHF*M Sensitivity: FM, 2.5  $\mu$ v; AM, 5  $\mu$ v for 2-watt output.

**Amplifier Section.** *IHF*M/Music Power Output: 65 watts. Response:  $1\frac{1}{2}$  db, 25-25,000 cps. *Hum & Noise*: -85 db below rated power output. *Harmonic Distortion* (at rated power output): 0.5%. *Output Impedances*: 4, 8 and 16 ohms. The 800-B has a total of 15 front panel controls and switches; 17 inputs and output jacks on rear panel. Size,  $5\frac{3}{4} \times 17\frac{1}{2} \times 13\frac{3}{4}$ ". Less case, below. For 105-120 v., 50-60 cycle AC. Shpg. wt., 33 lbs.

85 SZ 604. No Money Down. NET.....**429.50**  
85 SX 568C. Model 30-U Wood Case. For above. Specify mahogany or oiled walnut veneer. Shpg. wt., 9 lbs. NET EACH.....**24.95**



Model X-202-B

## New X-202-B 75-Watt Stereo Amplifier

NET  
**\$249<sup>50</sup>**  
LESS CASE

Beautifully designed, the new X-202-B stereo amplifier gives you a remarkable array of controls, together with a music power output of 75 watts. Includes Fisher's unique tape monitoring feature which permits the user to monitor tapes and at the same time, make use of the entire range of audio controls during tape playback without changing cable connections. Has input for Fisher's "Spacexander" reverbation unit so that reverbated recordings can be made, and reverbation added to any other program source. Stereo dimension control blends the two stereo channels to any desired degree; highly useful where two speakers are placed far apart. Has center-channel power output, with its own volume control and on-off switch, for use with separate third channel amplifier and speaker. Features 22 front and rear panel controls; 16 inputs; 7 outputs for associated components; and 3 outputs for speakers.

**IHFM/Music Power Output: 75 watts. Response:  $\pm 1$  db, 20-20,000 cps. *Distortion* (at 70 watts RMS): harmonic, 0.5%; IM, 1.0%. *Hum & Noise*: -90 db. *Output Impedances*: 4, 8 and 16 ohms. Two pairs of matched 7501 audio output tubes. Size,  $4\frac{1}{2} \times 15\frac{1}{2} \times 12\frac{1}{2}$ ". Less case, below. For 105-120 v., 50-60 cycle AC. Wt., 27 lbs.**

89 SU 136. No Money Down. NET.....**249.50**  
89 SX 125. MC-2 Metal Case. Simulated leather. 7 lbs. NET...**15.95**  
92 SX 838C. 10-U Wood Case. Specify mahogany or walnut. Shpg. wt., 8 lbs. NET EACH.....**24.95**



Model FM-200-B

MULTIPLEX

## New FM-200-B Stereo Multiplex FM Tuner

NET  
**\$289<sup>50</sup>**  
LESS CASE

Designed to please even the most critical of FM listeners, the new FM-200-B incorporates every conceivable feature for superb single-channel or stereo multiplex FM reception. Highlights of this exceptional unit are:  $\frac{1}{2}$ -microvolt sensitivity and Golden Cascade front end for unsurpassed performance; six IF stages; five limiter stages; and a host of other superior features. Exclusive MicroTune feature disconnects automatic frequency control circuit when the tuning knob is touched; AFC is automatically restored, locking in the station selected, when the tuning knob is released. Interstation noise suppression feature completely eliminates noise between stations on conventional FM reception and on multiplex. Antenna selector on front panel chooses 75 or 300-ohm antenna inputs, and has positions for Local or Distant reception. Illuminated signal strength meter for "right on" tuning, plus "Stereo Beacon".

**Usable Sensitivity:**  $\frac{1}{2}$  microvolt. **IHFM Sensitivity: 1 microvolt. **Controls:** Off-On, Audio Level, Muting, AFC Selector (Off, Micro Tune, AFC), Antenna Selector, and Tuning. **Outputs:** Tape Recorder, Multiplex, 600 ohm. Size,  $4\frac{1}{2} \times 15\frac{1}{2} \times 12\frac{1}{2}$ ". Less case, below. For 105-120 v., 50-60 cycle AC. Shpg. wt., 20 lbs.**

85 SU 602. No Money Down. NET.....**289.50**  
89 SX 125. MC-2 Metal Case. Simulated leather. 7 lbs. NET...**15.95**  
92 SX 838C. 10-U Wood Case. Specify mahogany or walnut. Shpg. wt., 8 lbs. NET EACH.....**24.95**

# FISHER



# Traditional High-Fidelity Excellence



**STUDIO STANDARD SERIES**



## X-1000 110-WATT STEREO AMPLIFIER

LESS CASE

**\$329.50**

NO MONEY DOWN

A superb, professional quality amplifier-control center for deluxe home music installations. Includes complete facilities for center-channel operation; Stereo Dimension control for blending two stereo channels to any degree of "spread"; and convenient front panel level controls for low-level inputs. Five jeweled panel lights indicate mode of operation. *IHF* Music

Power Output: 110 watts. Response:  $\pm 1/2$  db, 20-20,000 cps. Distortion: 1M, 0.8% at 100 watts RMS; harmonic, 0.5% at full rated output. Circuit includes 14 tubes, 7 diodes, 20 front-panel controls.  $5\frac{1}{4} \times 16\frac{1}{2} \times 13\frac{1}{4}$ ". Less case. For operation from 105-120 v., 50-60 cycle AC. Shpg. wt., 50 lbs.

85 SZ 605. No Money Down. NET.....329.50

85 SX 567C. Wood Case. Specify Mahog. or Walnut. 8 lbs. 24.95

## FM-1000-R NETWORK-RELAY FM TUNER

LESS CASE

**\$369.50**

NO MONEY DOWN

Designed for broadcast station use, the FM-1000-R is Fisher's finest tuner. Front end incorporates 4 tuned circuits; IF section employs 7 stages; 5 limiters provide maximum noise rejection. Also includes "Stereo Beacon" that lights when station is transmitting multiplex stereo. Has electronic interstation noise suppressor switch; independent 72-ohm and 300-ohm antenna inputs; three indicator lights; illuminated D'Arsonval-type signal strength meter and professional VU meter. Sensitivity 0.9  $\mu$ v for 20 db quieting.  $\pm 1/2$  db, 20-20,000 cps.  $4\frac{1}{4} \times 16\frac{1}{2} \times 12\frac{1}{2}$ ". Less multiplex adapter and case (listed below). For 105-120; 210-240 v., 50-60 cycle AC. Shpg. wt., 30 lbs.

85 SZ 606. No Money Down. NET.....369.50

85 SX 579C. Wood Case. Specify Mahog. or Walnut. 8 lbs. 24.95



## 400-CX STEREO PREAMPLIFIER

27 controls and 18 inputs. Includes "Sonic-Null" stereo balancing, "Stereo Dimension" separation control, record-monitor facilities, pushbutton selectors, indicator lights, phase reverse, etc. Distortion, less than 0.4%. 10 tubes.  $4\frac{1}{4} \times 15\frac{1}{2} \times 11\frac{1}{2}$ ". Less cabinet, below. For 105-120 volts, 50-60 cycle AC. Shpg. wt., 20 lbs.

89 SU 850. No Money Down. NET.....199.50

89 SX 125. Metal Case. Shpg. wt., 7 lbs. NET.....15.95

92 SX 838. Wood Case. Specify Mahog. or Walnut. 8 lbs. 24.95

SA-300B 90-WATT STEREO BASIC AMPLIFIER. Not illus.  $\pm 1/2$  db, 20-20,000 cps. 4—EL34 output tubes. With cover.  $6\frac{1}{4} \times 16\frac{1}{2} \times 7\frac{1}{4}$ ". For 105-125 volts, 50-60 cycle AC. Shpg. wt., 36 lbs.

89 SU 489. No Money Down. NET.....199.50

Self-powered unit for use with any Fisher tuner or receiver with multiplex output jack.



## MPX-100 STEREO FM MULTIPLEX ADAPTER

Designed for use with any Fisher tuner, tuner-amplifier—or any other FM tuner with wide-band ratio-detector design and multiplex adapter jack. Equipped with "Stereo Beacon"—pilot lamp automatically lights when the station you are listening to is transmitting a stereo multiplex broadcast. Features feed-through connections. Connect to normal tuner inputs, unit will feed monophonic FM programming then switch automatically when multiplex transmission begins. Precision circuitry assures correct phase and maximum channel separation. Includes stereo dimension control on front panel; extra AC convenience outlet. Front panel in burnished brass to match other Fisher components. Size,  $4\frac{1}{4} \times 4\frac{1}{2} \times 12$ ". Less case, below. For 105-125 volts, 50-60 cycle AC. Shpg. wt., 8 lbs.

89 SU 134. No Money Down. NET.....89.50

85 SX 566. Wood Case. Specify Mahogany or Oiled Walnut. Shpg. wt., 2 lbs. NET.....14.95

## FISHER ACCESSORIES



K-10 Reverb



RK-1 Stereo Remote Control

PR-6 Preamp

**MODEL K-10 "SPACEEXPANDER" REVERBERATION UNIT.** Adds a new dimension to listening—allows you to produce concert hall acoustics in your home. May be used with all stereo or monophonic home music systems using separate preamplifiers or having tape monitoring facilities. In stereo systems, may be connected to a center-channel amplifier and speaker. Delays part of signal 33 milliseconds, simulating natural reverberation of auditorium. Requires 0.2 volt. With instructions. Shpg. wt., 7 lbs.

89 SX 845. No Money Down. NET 69.50

**MODEL RK-1 REMOTE CONTROL.** For use with Fisher 400-CX, 400-CA, 202-T or X-202 stereo units. Permits the listener to adjust the channel balance and volume level from any point in the room. Consists of control assembly, 30 feet of cable and adapter plug for connection to any of the Fisher components mentioned above. Control unit has dial for each channel. Controls have range from zero to full volume as set on pre-amplifier. Plastic ivory case with gold trim. Size,  $4\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{4}$ ". Shpg. wt.,  $1\frac{1}{2}$  lbs.

92 S 848. NET.....17.95

**MODEL PR-6 PREAMPLIFIER.** Provides clean, undistorted signal to a power amplifier from any standard source—record changer, turntable, tape heads or microphone. RIAA-equalized for use with phono; NARTB-equalized for tape use. Frequency response:  $\pm 2$  db, 20-30,000 cps. Hum: better than 60 db below 1 volt on phono and tape. Gain: phono—1 volt for 10 millivolts input; mike—1 volt for 1 millivolt; tape—1 volt for 5 millivolts.  $3\frac{5}{8} \times 3\frac{3}{4} \times 3\frac{3}{4}$ ". For 105-125v., 50-60 cycle AC. Shpg. wt.,  $1\frac{1}{2}$  lbs.

98 S 528. NET.....12.95



# THE CITATION LINE

A series of superbly-engineered high-fidelity components that offer you outstanding audio reproduction. Available either in factory-wired form, or as dollar saving, easy-to-build kits.



**CITATION I STEREO PREAMP KIT**

LESS CASE

**\$159<sup>95</sup>**

**NO MONEY DOWN**

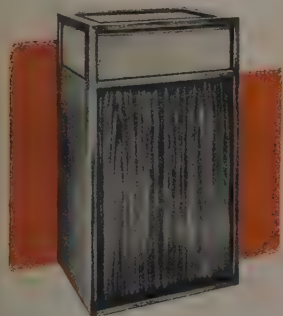
A deluxe stereo preamp to serve as the control center of your hi-fi system. Ideal for use with the Citation II. Features separate bass and treble step-type tone controls for each channel, DC on filaments, low-noise resistors, 18 stages (9 dual triodes). Panel is gold and charcoal brown. Response: +0, -0.5 db, 5-80,000 cps. *Distortion*: under 0.05% at 2 v. *Controls*: Function Selector (Aux, Tape Amp, Tuner, Phono 1, Phono 2, Tape Head), Mode Selector, Blend (also adjusts third-channel output), Equalization (2), Tone (4), Balance, Phasing, Reverse, Contour, Tape Monitor, On/Off. Less case, below. 6x14<sup>1</sup>/<sub>2</sub>x12<sup>1</sup>/<sub>4</sub>". For 110-120 v., 50-60 cycle AC. 31 lbs.

89 SU 356. NET.....**159.95**

89 SU 358. Above, wired, NET...**249.95**

89 SX 360. WC-1 Case. Walnut-veneer.

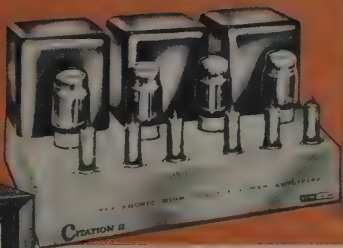
7<sup>1</sup>/<sub>2</sub>x16<sup>1</sup>/<sub>2</sub>x12<sup>1</sup>/<sub>4</sub>". 3 lbs. NET.....**29.95**



**CITATION X SPEAKER SYSTEM**

The Citation X incorporates a superior new audio design for astonishing realism of reproduction. Its hemispheric radiation pattern gives a natural mixture of direct and reflected sound to add an exciting spatial quality to music in your home. The Lowther driver radiates from the front and back of the main cone, from a mid-range cone and from a stabilizer (very highs). Driver is placed directly into the throat of the horn for absolutely smooth sound transfer. Horn is split, slot-loaded conical, with two 7<sup>1</sup>/<sub>2</sub>-ft. folded sections. 20 to 50,000 cps range; resonance below 30 cps. Walnut finish. 36<sup>1</sup>/<sub>2</sub>x20x14<sup>1</sup>/<sub>4</sub>". Shpg. wt., 75 lbs.

70 DU 677-2. NET.....**250.00**



**CITATION II  
STEREO BASIC AMPLIFIER KIT**

LESS CASE

**\$159<sup>95</sup>**

**NO MONEY DOWN**

This professionally designed, precision-engineered stereo basic amplifier delivers 60 watts per channel for 120 watts of virtually distortion-free stereo or monophonic output. Up to 260-watt peaks to effortlessly drive even the most inefficient speaker system. Extended frequency response—two octaves above and below range of hearing for transparently smooth sound. Multiple feedback loops for lower distortion with no sacrifice in stability. Employs four KT88 audio output tubes, each with its own bias adjust potentiometer. Power supply consists of 4 silicon diode rectifiers, filter choke and heavy-duty electrolytics and potted power transformer. *Frequency Response*: +0, -1 db, 18-40,000 cps. *Harmonic Distortion*: less than 0.5% at full power (20-20,000 cps); *IM Distortion*: less than 0.5% at full power. *Hum and Noise*: better than 90 db below 60 watts. Bias meter for adjustment. Gold and charcoal brown. 9x16<sup>1</sup>/<sub>2</sub>x11<sup>1</sup>/<sub>4</sub>". Less case, below. For 110-120 v., 50-60 cycle AC. Wt., 71 lbs.

89 SU 357-2. NET.....**159.95**

89 SU 359. Above, wired, NET...**229.95**

AC II METAL CASE FOR ABOVE. 2 lbs.

89 SX 361. NET.....**7.95**



**Citation V**

**CITATION V BASIC AMPLIFIER KIT**

A smaller version of the Citation II (above). Delivers 40 watts per channel, for 80 watts of superior stereo or monophonic output. Quality components include grain-oriented output transformers for clear, full low-frequency response. Response: +0, -1 db, 7 to 45,000 cps. *Harmonic Distortion*: less than 0.5% at full power (20-20,000 cps). *IM Distortion*: less than 0.5% at full power. *Hum & Noise*: better than 85 db below 40 watts. Four 7581 output tubes. Includes bias meter. Less case, below. Gold and charcoal brown. For 110-120 v., 50-60 cycle AC. 5<sup>1</sup>/<sub>2</sub>x13<sup>3</sup>/<sub>4</sub>x11<sup>1</sup>/<sub>4</sub>". Wt., 40 lbs.

89 SU 890-2. Less case, NET.....**119.95**

89 SU 891. Above, wired, NET...**179.95**

AC V METAL CASE FOR ABOVE. 2 lbs.

89 SX 893. NET.....**7.95**



**CITATION III FM TUNER KIT**

LESS CASE

**\$149<sup>95</sup>**

**NO MONEY DOWN**

Hear stations you've never heard before with the Citation III. Extreme sensitivity for reception of distant stations, and for greatly improved reception with in standard distances—0.65  $\mu$ v for 20 db quieting. "Nuovistor" first RF for exceptionally low noise figure. Front end and converter-IF sections are factory wired and aligned for assembly without special instruments. Separate meters for signal strength and center-of-channel tuning. Defeatable AFC; squelch, volume controls. Multiplex jack (adapter below). Charcoal brown, gold. Less case, below. 6x14<sup>1</sup>/<sub>2</sub>x12<sup>1</sup>/<sub>4</sub>". For 110-120 v., 50-60 cycle AC. Shpg. wt., 32 lbs.

89 SU 886. NET.....**149.95**

89 SU 887. Above, wired, NET...**229.95**

WC-1 WOOD CASE. For above. Hand-rubbed walnut veneer. 7<sup>3</sup>/<sub>4</sub>x16<sup>1</sup>/<sub>2</sub>x12<sup>1</sup>/<sub>4</sub>". Wt., 3 lbs.

89 SX 360. NET.....**29.95**

CITATION III MX. Factory Wired Multiplex Adapter for stereo FM reception with Citation III. Receives both power and signal from the Citation III. Wide bandpass. Ship. wt. 8 lbs.

85 SU 626. NET.....**89.95**



**Citation IV**

**CITATION IV STEREO PREAMP KIT**

Stereo preamp kit with many of the features of the Citation I (above). Includes separate, defeatable bass and treble controls for each channel, DC on filaments, low-noise resistors. Continuously variable blend control. Response: +0, -0.5 db 5 to 80,000 cps. *Distortion*: less than .05% at 2 v. *Controls*: Function (Aux, Tape Amp, Tuner, Phono-RIAA, Phono-LP, Tape Head); Mode Selector; Blend; Tone (4); Balance. Contour switch, rumble and scratch filters, tape monitor switch. Charcoal brown, gold. 5<sup>3</sup>/<sub>4</sub>x14<sup>1</sup>/<sub>2</sub>x11<sup>1</sup>/<sub>4</sub>". Less case, below. For 110-120 v., 50-60 cycle AC. Wt., 25 lbs.

89 SU 888. Less case, NET.....**119.95**

89 SU 889. Above, wired, NET...**189.95**

89 SX 360. Wood Case. Walnut-veneer.

7<sup>1</sup>/<sub>2</sub>x16<sup>1</sup>/<sub>2</sub>x12<sup>1</sup>/<sub>4</sub>". 3 lbs. NET.....**29.95**

## ECONOMY "AWARD SERIES" COMPONENTS

Featuring handsome styling and solid performance at a moderate price, the A-300 and T-300X are among the finest values in hi-fi. Perfectly matched in both size and styling.



**MULTIPLEX**

**T300X STEREO MULTIPLEX FM-AM TUNER**

NET

**\$149<sup>95</sup>**

**NO MONEY DOWN**

- Built-in Stereo FM Multiplex Circuit
- 0.95 uv Sensitivity on FM
- Attractive Brushed Gold Styling
- AFC for "Lock-In" FM Tuning

Completely up to date in styling and engineering, the T-300X is a superb choice for low-cost home music systems. Includes highly sensitive FM and AM tuners on a single compact chassis. FM section includes built-in multiplex circuit for reception of stereo FM broadcasts. Finest quality reception stems from wide-band discriminator circuit with 6BN6 limiter that insures freedom from distortion and noise. A total of four IF stages produce top sensitivity.

AFC switch "locks-in" FM stations; defeat provision for tuning weak stations adjacent to strong ones. *FM Section Sensitivity:* 0.95 uv for 20 db quieting; 3.2 uv IHFM. *Frequency Response:* ±1 db, 10-35,000 cps. *Distortion:* Less than 0.1% modulation, AM section has high selectivity; strong image rejection and IF rejection. Built-in low noise ferrite loop AM antenna.

5 controls—tuning; on-off; AFC; mode; selector. 8 tubes plus rectifier. Includes handy AC convenience receptacle. Size, 5½x15¼x11½". Less case, listed below. For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 25 lbs.

85 SU 622. No Money Down. NET.....149.95

TYPE CX-50 METAL CASE. Shpg. wt., 2 lbs.  
89 SX 839. NET.....12.95

TYPE WW-50 WOOD CASE. Walnut veneer. Shpg. wt., 3 lbs.  
89 SX 840. NET.....29.95



**MODEL A-300 30-WATT STEREO AMPLIFIER**

NET

**\$99<sup>95</sup>**

**NO MONEY DOWN**

- Continuously Variable "Blend" Control Eliminates "Hole-in-Middle" Effect
- Ganged Bass and Treble Controls
- Zero-to-Infinity Balance Control

Strikingly attractive brushed gold styling, complete control facilities and stable performance keynote this outstanding, low-cost stereo amplifier. Delivers IHFM power output of 15 watts per channel; perfectly mated to the T-300X tuner, at left. Accommodates every type of stereo or monophonic signal source. Features balance and blend controls for optimum stereo listening; illuminated push-button on/off switch that allows turning unit on and off without upsetting controls; and ganged bass and treble controls that boost and cut both channels simultaneously.

*Frequency Response:* ±1 db, 15-70,000 cps at 1 watt. *Distortion:* Less than 1% at rated output. *Front Panel Controls:* Function (Phono-Lo/Tape-Lo, Phono-Hi, Tuner, Aux/Tape-Hi); Loudness; Blend; Bass; Treble; Balance; Rumble Filter; Contour; Stereo Reverse; Equalization (RIAA, NARTB). *Tube Complement:* 4—7408; 4—12AX7; 1—12AU7; plus two silicon rectifiers. Also includes handy AC convenience receptacle. Size, 5½x15¼x11½". Less case, listed below. For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 25 lbs.

85 SU 621. No Money Down. NET.....99.95

TYPE CX-50 METAL CASE. Shpg. wt., 2 lbs.  
89 SX 839. NET.....12.95

TYPE WW-50 WOOD CASE. Walnut veneer. Shpg. wt., 3 lbs.  
89 SX 840. NET.....29.95

## Stereo Festival

Here is uncompromising stereo performance combined with striking appearance. 15 versatile front-panel controls for complete mastery...



**TA-260 60-WATT STEREO FM-AM RECEIVER**

NET

**\$299<sup>95</sup>**

**NO MONEY DOWN**

This deluxe 60-watt stereo center offers every desirable input and control, separate FM and AM tuners, plus striking brushed gold styling. Clutch-type bass and treble controls

permit tonal adjustment separately for each channel or simultaneously for both channels. Additional features include FM and AM electronic tuning bars; speaker phasing switch; provision for multiplex (see MX-600 Adapter, at right); and built-in ferrite loopstick AM antenna.

*Output:* 30 watts per channel at less than 0.6% distortion. *Frequency Response:* (Amplifier) ±1 db, 10-35,000 cps at 1 watt. *FM Sensitivity:* 1½ uv for 20 db quieting. 4—7335 output tubes. Size, 6½x15¼x12¾". Less case, below. For 110-120 volts, 50-60 cycle AC. Shpg. wt., 44 lbs.

89 SU 896. NET.....299.95

CX-26 METAL CASE. Shpg. wt., 2 lbs.  
85 SX 557. NET.....12.95

WW-30A WOOD CASE. Finished in attractive walnut veneer. Shpg. wt., 3 lbs.  
85 SX 558. NET.....29.95

## NEW! Model MX-600



ONLY

**\$49<sup>95</sup>**

**NO MONEY DOWN**

"Snap-On" Multiplex Adapter

Snap on chassis of Harmon-Kardon TA-230, TA-224 and TA-260. Adapter takes its power from the unit it is attached to. Installs in seconds.



# High-Fidelity Components

harman kardon

## DELUXE "AWARD SERIES" COMPONENTS

Engineered without compromise for outstanding stereo sound, the A-500 and F-500X offer professional features at moderate cost. Excellent choice for home music systems.



MULTIPLEX

Highly sensitive and distortion-free, the F-500X is Harman-Kardon's finest FM tuner. It includes built-in multiplex circuit for reception of stereo FM transmissions. Size and distinctive brushed gold styling match A-500 Stereo Amplifier, at left.



MODEL A-500 50-WATT STEREO AMPLIFIER

\$159<sup>95</sup>

- Massive Output Transformers
- Separate Bass and Treble Controls For Each Channel
- Unique Blend Indicator Lights

NO MONEY DOWN

An excellent stereo amplifier, loaded with features for pleasurable listening. Massive output transformers of special design assure flawless response throughout the range of listening; stereo headphone input is conveniently located on front panel; unique blend lights visually indicate degree of stereo-monophonic mix—work off blend control; separate bass and treble controls for each channel; and illuminated pushbutton on-off control.

Frequency Response:  $\pm 1/2$  db, 12-35,000 cps at 1 watt. Power Output: 25 watts per channel IHFM. Distortion: Less than 0.5% at rated output. Front Panel Controls: Speaker Phasing; Tape Monitor; Hi-cut; Lo-cut; Contour; Stereo Reverse; Ambiance (serves as gain control for center channel or "reverb" attachment); 2—Bass; 2—treble; Balance; Blend; Loudness; Function Selector. Tubes: 4—7355; 1—12AU7; 4—12AX7/ECC83. Headphone jack on front panel disengages speakers when headphones are plugged in. Size,  $7\frac{1}{2} \times 15\frac{1}{4} \times 12$  (excluding knobs). Less case, listed below. For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 32 lbs. 89 SU 837. No Money Down. NET Less Case. 159.95

CX-50 METAL CASE. Shpg. wt., 2 lbs.

89 SX 839. NET. 12.95

WW-50 WOOD CASE. Walnut veneer. Shpg. wt., 3 lbs.

89 SX 840. NET. 29.95

\$169<sup>95</sup>

- D'Arsonval Movement Tuning Meter
- Interchannel Muting Switch
- Range Switch for Distant Reception
- Illuminated On/Off Pushbutton

NO MONEY DOWN

This superior FM tuner contains everything the knowledgeable listener desires. Wide-band discriminator circuit assures excellent capture ratio with low distortion; twin tuning gangs for outstanding selectivity; two tuned circuits preceding first RF stage for excellent spurious response rejection. Sensitivity: 0.85  $\mu$ v for 20 db quieting; 3  $\mu$ v IHFM. Frequency Response:  $\pm 1$  db, 10-52,000 cps. Distortion: Less than 0.1% at 100% modulation. Front Panel Controls: On-Off; FM-Multiplex; Interchannel Muting Defeat; AFC Defeat; Tuning. Indicator lights show mode of operation—FM or Multiplex. Size,  $7\frac{1}{2} \times 15\frac{1}{4} \times 12$ . Less case, listed below. For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 24 lbs.

85 SU 637. No Money Down. NET Less Case. 169.95

89 SU 838. Model F-500 FM Tuner. Identical to above, but less multiplex circuit. Provision for addition of adapter, listed below. Shpg. wt., 22 lbs. No Money Down. NET. 129.95

85 SU 623. MX-500 Unpowered Multiplex Adapter. Plugs into tuner chassis. For use with models F-500, ST-350, ST-360 and ST-360A tuners. Connects in seconds. Shpg. wt., 5 lbs. NET. 39.95

CX-50 METAL CASE FOR F-500X AND F-500. Wt., 2 lbs.

89 SX 839. NET. 12.95

WW-50 WOOD CASE. Walnut veneer. Shpg. wt., 3 lbs.

89 SX 840. NET. 29.95

## Multiplex Adapter



## Stereo Recital

A moderately priced stereo music center for the home. Has full facilities to accommodate every stereo or monophonic source.

- Expressly Designed For Harman-Kardon TA-230, TA-224 and TA-260
- Snaps on Rear of Chassis

MODEL MX-600. Low-cost multiplex adapter fits on the rear of tuner-amplifier chassis. Includes special power take-off network that plugs into any of the output tube sockets of the tuner-amplifier. 3 simple plug-in connections with cables supplied. No additional adjustments or controls required. Size,  $7\frac{1}{2} \times 1\frac{1}{2} \times 3\frac{1}{4}$ . Shpg. wt., 2 lbs.

85 SU 624. NET. 49.95

MODEL MX-700 SELF-POWERED MULTIPLEX ADAPTER. Designed to operate with older Harman-Kardon FM and FM-AM tuners equipped with multiplex output jack. No operating controls—unit functions automatically. Includes 2 tubes and rectifier, 3 simple connections with cable supplied.  $9\frac{1}{2} \times 2\frac{1}{2} \times 4$ . For 110-120 v., 50-60 cycle AC. Shpg. wt., 5 lbs.

85 SU 625. NET. 59.95

MODEL TA-224 30-WATT STEREO AMPLIFIER/FM-AM TUNER

NET  
\$199<sup>95</sup>  
NO MONEY DOWN

Here's every desirable feature on a single, compact chassis. Combines two 15-watt amplifier sections, plus separate FM and AM tuner sections. Carefully designed to accommodate every sound source, it features 5 pairs of inputs; silicon diode power supply; stereo "Blend" control; 2—bass and 2—treble controls; DC on preamp filaments; and nine front-panel controls. Amplifier Response:  $\pm 0.5$  db, 15-30,000 cps. FM Sensitivity: 2.5  $\mu$ v for 20 db quieting.

Has provision for addition of MX-600 "snap-on" multiplex adapter, at left. Employs Armstrong circuit with Foster-Seelye discriminator and AFC. Front Panel Controls: AM Tuning; FM Tuning; 2—Bass; 2—Treble; Blend; Loudness; Mode; Function; Selector. 16 tubes and 2 diodes. Size,  $6\frac{1}{2} \times 15\frac{1}{4} \times 12\frac{3}{4}$ . Brushed gold panel, less case (below). For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 30 lbs.

89 SU 431. NET. 199.95

89 SX 432. Metal Case. 2 lbs. NET. 11.95

85 SX 558. Wood Case. Attractive walnut veneer. Wt., 3 lbs. NET. 29.95

# SHERWOOD

## Superior Components Designed for



**MULTIPLEX**

### SPECIFICATIONS

**Rated Output:** 32 watts music power each channel (64 watts stereo).

**Response:** 20-20,000 cps  $\pm 1$  db at 30 watts.

**Hum & Noise:** 60 db below 60 watts, phono input.

**Sensitivity:** 0.95  $\mu$ v for 20 db quieting.

**IHFm Sensitivity:** 1.8  $\mu$ v for -30 db fm and distortion below 100% FM.

**Tubes:** 21 plus 4 silicon rectifiers and tuning eye.

**NEW**

NET

**\$299<sup>50</sup>**

Less Case

this receiver include controlled frequency and phase response of the FM IF amplifiers, limiters and discriminator flat to 75,000 cps for minimum distortion and maximum separation of the multiplexed stereo signal through the tuner circuits.

Extremely sharp filter circuits remove the 19-kc pilot carrier and 67-kc secondary sub-channel transmission. **Front-Panel Controls:** interchannel hush; balanced-flywheel tuning; friction-locked stereo bass and treble controls; ganged loudness control; phono level; stereo balance; function selector; input selector; 6 slide switches controlling scratch and rumble filters, FM-AFC, phase reverse and tape monitor provision.

**Inputs:** tape playback, tape monitor, phono, AM tuner, 2 aux. **Outputs:** 4, 8, 16 ohms. Front panel is attractively finished in white enamel. Less case, below.  $4\frac{1}{2} \times 16\frac{1}{4} \times 14"$ . For 110-120 v., 60-cycle AC. Shpg. wt., 33 lbs.

85 SU 628. NET.....**299.50**  
89 SX 885. Walnut-tone leatherette case (metal).  $4\frac{1}{2} \times 16\frac{1}{4} \times 14"$ , 3 lbs. NET.....**7.50**

**Enjoy Stereo FM!**

Listen to full-fidelity FM stereo broadcasts with Sherwood multiplex units.



### Model S-2200 FM-AM Stereo Tuner

NET

**\$179<sup>50</sup>**

Less Case

**NO MONEY DOWN**

feeds a cascade RF amplifier. Tuner can be used for simultaneous FM and AM reception.

**FM Section:** Sensitivity, 0.95  $\mu$ v for 20 db of quieting. 3 cascaded limiters. **FM Response:**  $\pm \frac{1}{2}$  db, 20 to 20,000 cps. **Hum and Noise:** 60 db below 100% modulation. Foster-Seely balanced discriminator; delayed AGC applied to RF stage; AFC; and interchannel noise muting with front panel level control. **AM Section:** superhet circuit with 2 tuned RF circuits, double-tuned IF stage, delayed AVC applied to RF, mixer and IF stages, 10-kc filter, dual wide-narrow selectivity. **AM Response:** -6 db, 20 to 7,500 cps. **Hum and Noise:** 55 db below 100% modulation. **Outputs:** Cathode-follower audio; FM multiplex (adapter below).

12 tubes; 2 tuning eyes; rectifier. Size,  $4 \times 14\frac{1}{2} \times 12"$ . Less case, at right. For 110-120 v., 50-60 cycle AC. 17 lbs.

92 SU 887. NET.....**179.50**

### A3MX MULTIPLEX ADAPTER

Adapts the S-2200 (above) and S-3000-III for FM stereo; fits within chassis. Similar to S3MX adapter on opposite page, but not self-powered and does not have hiss filter. 67-kc filter is in circuit at all times. 2 tubes. Shpg. wt., 5 lbs.

85 SU 630. NET.....**49.50**



### Model S-5000-II 80-Watt Stereo Amplifier

NET

**\$199<sup>50</sup>**

Less Case

Skillfully designed 80-watt stereo amplifier with every important control and input essential to outstanding stereo or monophonic operation. Includes a host of superior features: five modes of operation selectable by function switch which also operates a corresponding group of indicator lights; friction-locked shafts for bass and treble controls for adjustment of one channel separately, or both channels simultaneously; twelve inputs to accommodate every sound source; two cathode-follower recording outputs; 12 db/octave scratch and rumble filters which operate on all channels; phono channel noise and hum 60 db below rated output; phono sensitivity, 1.8 mv; presence-rise switch.

**Rated Output:** 40 watts per channel for stereo (80 watts of music power, total), at  $\frac{1}{2}$ % harmonic or  $1\frac{1}{2}$ % IM distortion (60/7 kc/4:1). **Response:**  $\pm \frac{1}{2}$  db, 20 to 20,000 cps. **Controls:** Phono Level, Rumble Filter, Scratch Filter and Presence; Selector (Tape, Phono, FM-AM, FM-MX, Aux); Balance; concentric Bass; concentric Treble; Loudness; Power Off-On; Function Selector (Stereo Normal, Stereo Reverse, Mono Ch. 1, Mono Ch. 2, Mono Ch. 1 and 2); Tape Monitor switch; Loudness In-Out switch.

Four 7591 output tubes, six 12AX7; four silicon rectifiers. **Outputs** are 4, 8 and 16 ohms per channel.  $4 \times 14\frac{1}{2} \times 12\frac{1}{2}"$ . Less case, below. For 110-120 volts, 60 cycle AC. Shpg. wt., 30 lbs.

89 SU 881. NET.....**199.50**

**METAL CASES.** Fit S-5000-II, S-2200, S-5500,  $4\frac{1}{2} \times 14\frac{1}{2} \times 13"$  (HWD). Durable, gold-spattered, cork-like finish. Shpg. wt., 3 lbs.

92 SX 891. Brown "Flexstone." NET.....**5.00**

89 SX 318. Black "Flexstone." NET.....**5.00**

**Your Satisfaction is Guaranteed at Allied**



# Thrilling Music Reproduction

SHERWOOD



## Model S-5500 50-Watt Stereo Amplifier

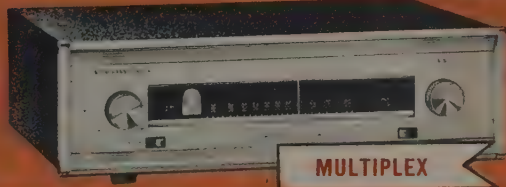
NET  
\$159<sup>50</sup>

Less Case

A triumph of engineering skill, the Model S-5500 50-watt stereo amplifier represents a notable achievement in the distinguished line of Sherwood quality components. Some of its superior features include: 12 db/octave scratch and rumble filters which operate on all channels; eight high-level and four low-level inputs to accommodate every sound source; damping factor of 5 to deliver optimum performance when used with compact high and low-efficiency speaking systems; phono sensitivity of 1.8 mv; two cathode follower recording outputs; friction-locked bass and treble controls for adjusting each channel separately or both simultaneously; instant mode selection by function switch which activates a corresponding group of indicator lights.

**Rated Output:** 25 watts per channel for stereo. **Distortion:** 1M, 1 1/2%; harmonic, 1/2% at rated output. **Frequency Response:** ±1 db, 20 to 20,000 cps. **Hum and Noise:** ratio, 80 db below 25 watts; phono, 60 db below 25 watts. **Controls:** Phono Level, Rumble Filter, Scratch Filter, Selector (Tape, Phono, FM, MX, AM-TV, Aux); Balance; Concentric Bass; concentric Treble; Loudness; Function Selector (Power Off-On, Stereo, Normal, Stereo Reverse, Mono S1, Mono S2, Mono S1 & 2); Tape Monitor switch; Loudness In-Out switch. **Impedances:** 4, 8 and 16 ohms per channel. **Tubes:** 4—7591, 5—12AX7; 2—silicon rectifiers. 4x14 1/2x14". Less case, listed under the S-5000-II on the opposite page. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 22 lbs.

89 SU 882. NET.....159.50



MULTIPLEX

## NEW S-3000-IV Stereo FM Multiplex Tuner

NET  
\$160<sup>00</sup>

Less Case

A new tuner engineered in the tradition of Sherwood quality. Provides outstanding FM stereo multiplex performance. Phase-locked synchronous oscillator reinserts multiplex subcarrier; extremely sharp filter circuits remove 19-kc pilot carrier and 67-kc secondary subchannel transmission. Controlled frequency and phase response of FM IF amplifiers, limiters and discriminator, flat to 75 kc, guarantees minimum distortion and maximum signal separation.

**Controls:** interchannel hush, tuning (balanced flywheel), AFC. **Typical Sensitivity:** 0.95 µv for 20 db of quieting. **IHFH Sensitivity:** 1.8 µv for -30 db noise and distortion below 100% FM. **Selectivity:** 225 kc at -3 db. **FM Discriminator:** 850 kc peak-to-peak. (Same FM and multiplex circuitry as the S-8000 receiver.) 19 tubes, tuning eye, silicon rectifier. Less case, listed below the S-2000-II. 4x14 1/2". For 110-120 v., 50-60 cycle AC. 20 lbs.

85 SU 629. NET.....160.00

### MODEL S-3000-III FM TUNER

Same as S-3000-IV but less multiplex circuitry. 15 lbs.

89 SU 883. NET.....110.50

**A3MX MULTIPLEX ADAPTER.** Adapts the S-2200 and S-3000-III for FM stereo; fits within chassis. Similar to S3MX adapter below, but not self-powered and does not have hiss filter. 67-kc filter is in circuit at all times. 2 tubes. Shpg. wt., 5 lbs.

85 SU 630. NET.....49.50

## Model S3MX Multiplex Adapter



Converts your present Sherwood FM tuner to stereo multiplex operation. (For models 2200 and 3000-III see Model A3MX above.) Includes cables, instructions and modification parts; 4 tubes plus rectifier. 4x 5 1/2x10 1/2". Less case, below. For 110-120 v., 50-60 cycle AC. 8 lbs.

85 SU 631. NET.....69.50

85 SX 578. Case, 1 lb. NET.....4.00



## Model S-7000 FM-AM Receiver

NET  
\$299<sup>50</sup>

Less Case

A superbly engineered instrument for the audio connoisseur. 50-watt stereo amplifier, dual preamps and an FM-AM tuner on single chassis—simply add a speaker system. Use adapter at left for FM stereo multiplex. FM and AM sections can be operated simultaneously. **Audio Section:** 25 watts per channel. **Response:** ±1 db, 20-20,000 cps. **Harmonic Distortion:** 1/2% at rated output. **Controls:** Phono Level; Rumble Filter; Scratch Filter; Selector (Tape, Phono, FM-AM, FM-MX, Aux)—with indicator lights; Balance; concentric Bass, concentric Treble (friction-locked); Loudness; Function Selector; Tape Monitor switch; Loudness In-Out switch. **Output:** 4, 8, 16 ohms per channel. **FM Section:** Sensitivity, 0.95 µv for 20 db of quieting; 3 limiters plus discriminator; delayed AGC; AFC; interchannel noise muting. **AM Section:** Superhet with 2 tuned RF's; double-tuned IF; delayed AVC; wide and narrow selectivity positions. **Outputs:** cathode-follower audio; FM multiplex. 22 tubes, 5 rectifiers, tuning eye. 4x14 1/2x14". Less case, below S-8000 on opposite page. For 110-120 v., 60-cycle AC. 31 lbs.

89 SU 884. NET.....

299.50

## Model S-2000-II Basic FM-AM Tuner

NET  
\$145<sup>50</sup>

Less Case

A top-performance FM-AM tuner—features AFC circuit and high sensitivity. **FM Section:** Sensitivity, 0.95 µv for 20 db of quieting. 3 cascaded limiters, Foster-Seeley balanced discriminator, delayed AGC. AFC. interchannel noise muting. **AM Section:** superhet circuit with 2 tuned RF circuits, double-tuned IF, delayed AVC, 10-kc filter, dual wide-narrow selectivity (5-kc and 15-kc bandwidths). **Outputs:** cathode-follower audio, FM multiplex. **Controls:** Off-On/FM-AM Selector, FM Hush, FM and AM tuning, AFC On-Off, AM Wide/Narrow, 11 tubes, rectifier, 6BR5/EM80 tuning eye. 4x14 1/2x10 1/2". Less case, below. For 110-120 v., 50-60 cycle AC. 15 lbs.

92 SU 889. NET.....145.50

METAL CASES. Durable, gold-spattered cork-like finish. 4 1/2x14 1/2x10 1/2". 3 lbs.

92 SX 892. Brown. NET.....5.00 89 SX 319. Black. NET.....5.00



Sherwood High-Fidelity Components are Available on Allied's Credit Fund Plan

# Bogen

# All New High Fidelity Components



## MULTIPLEX

### MODEL RP200 STEREO MULTIPLEX RECEIVER

Less Case  
**\$299<sup>95</sup>**

**NO MONEY DOWN**

A complete stereo control center for the home—powerful 40-watt stereo amplifier; FM tuner with multiplex circuit built-in for immediate reception of stereo FM broadcasts; plus AM tuner for standard broadcasts. 20-watt-per-channel IHFM output easily drives even low-efficiency speaker systems. Equipped with controls and inputs to accommodate every stereo and monophonic mode of operation. Includes volume, bass and treble controls for each channel. Pure filtered DC on low-level tube heaters reduces hum to the vanishing point. For added convenience, both an AM and FM antenna are built in. Also includes provision for installation of external antennas. FM section has AFC for sure, "lock-in" tuning. *FM Sensitivity:* 1.5  $\mu$ v for 20 db quieting; 3  $\mu$ v (IHFM). *Hum & Noise:* —58 db. *Distortion:* 1.5%. Pulls in weakest stations

## "FUNCE DUPL" SERIES



All Bogen stereo tuners and receivers include built-in Multiplex Circuit

without noise. AM section covers band from 520-1640 kc with finest quality response. Front-panel switch has positions for AM and Multiplex. AFC defeat switch. *Amplifier Frequency Response:*  $\pm 1$  db, 20-20,000 cps. Circuit contains 20 tubes and 3 diodes—including a matched pair; plus 7 rectifiers. Size, 5 $\frac{1}{2}$ " high, 16 $\frac{1}{2}$ " wide and 14" deep. Less case, listed below. For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 29 lbs.

85 SU 607. No Money Down. NET. **299.95**

TYPE EN-2 METAL CASE. Shpg. wt., 6 lbs.

85 SX 569. NET. **11.55**

TYPE WE-3 WOOD CASE. Handsomely finished. In distinctive walnut veneer only. Shpg. wt., 7 lbs.

85 SX 572. No Money Down. NET. **25.95**



## MULTIPLEX

An excellent combination. Matched in size and style.

### MODEL TP200 FM-AM TUNER

**\$199<sup>95</sup>**

**NO MONEY DOWN**

With built-in multiplex circuit for reception of stereo FM ...



### AP200 STEREO AMPLIFIER

**\$154<sup>95</sup>**

**NO MONEY DOWN**

Provides IHFM output of 22 watts per channel for a total of 44 watts

Superb FM-AM tuner for deluxe home music systems. Has entirely separate FM and AM sections. Features built-in multiplex circuit for reception of stereo FM broadcasts. Equipped with precise D'Arsonval movement meter for razor-sharp tuning. FM section includes AFC for drift-free, "lock-in" tuning. *FM Sensitivity:* 1.5  $\mu$ v for 20 db quieting at 75-ohm input; 3  $\mu$ v IHFM. *FM Frequency Response:*  $\pm 0.5$  db, 20-18,000 cps. Built-in line-cord FM antenna with provision for future addition of an external antenna. AM section receives standard broadcasts from 520-1640 kc. Built-in ferrite-loopstick AM antenna. *Controls:* Selector (stereo, FM-AM, FM, AM, Multiplex); AFC Out; AM Tuning; FM Tuning; Power On-Off. Size, 4 $\frac{3}{4}$ " high, 15" wide and 12 $\frac{1}{4}$ " deep. Supplied less case; see metal and wood cases listed below. For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 17 lbs.

89 SU 129. NET. **199.95**

An outstanding stereo amplifier-control center that gives you precise control of every type of stereo or monophonic program source. Provides 22 watts per channel for stereo—or a full 44 watts when used as a monophonic amplifier. An ideal mate to the TP200 FM-AM Tuner, listed at left.

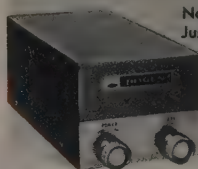
*Frequency Response:*  $\pm 1$  db, 20-20,000 cps. *Distortion:* 0.6% at rated output. *Hum & Noise:* mag. input —60 db; tuner and aux —75 db. *Controls:* Selector (Tape/Phono, Tuner, Phono 2-Aux); Bass, Treble, Volume, Mode (Stereo, Right Only, Left Only, Reverse, Mono Left, Mono Right). *Switches:* Tape Monitor, Low Filter, High Filter, Loudness, Power On/Off.

10 tubes, 2 silicon and 1 selenium rectifier. Size, 4 $\frac{3}{4}$ " high, 15" wide and 11 $\frac{1}{2}$ " deep. Supplied less case; see metal and wood cases listed below. For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 20 lbs.

85 SU 608. NET. **154.95**

### PX-60 MULTIPLEX ADAPTER

No tools required. Just plug into tuner.



**\$69<sup>50</sup>**

**NO MONEY DOWN**

Specifically designed for use with previously manufactured Bogen tuners and receivers. Simple plug-in connections with cables supplied. 4 $\frac{1}{2}$ "x4 $\frac{1}{2}$ "x9". Complete with textured metal case. For 110-120 volts, 50-60 cycle AC. Shpg. wt., 4 lbs.

85 SU 612. NET. **69.50**



### RP100 MONOPHONIC RECEIVER

Combines on a single chassis, 15 watt monophonic amplifier, control center and FM-AM tuner. An excellent choice for a moderately priced monophonic home music system, or for use as a background music source in offices, restaurants, medical waiting rooms, etc. Amplifier has response,  $\pm 1$  db, 20-20,000 cps. Peak power output of 30 watts. FM section has sensitivity of .5  $\mu$ v for 30 db quieting at 75-ohm input. Built-in FM-antenna. Tunes AM from 520-1640 kc.

*Controls:* Selector (with equalization positions); Volume; Bass; Treble; Low Filter; High Filter; Loudness; Speaker Selector; Tuning; On-Off. 13 tubes plus 3 crystal diodes. 4 $\frac{3}{4}$ "x15x12 $\frac{1}{4}$ ". Less case, below. For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 21 lbs.

89 SU 100. NET. **169.95**

89 SX 130. Metal Case, 6 lbs. NET. **11.95**

89 SX 878. Wood Case. In attractive walnut veneer. Shpg. wt., 7 lbs. NET. **24.75**

EN-1 METAL CASE FOR TP200 AND AP200. Shpg. wt., 6 lbs.

89 SX 130. NET. **11.95**

WE-2 WOOD CASE FOR TP200 AND AP200. Walnut veneer. Shpg. wt., 7 lbs.

89 SX 878. No Money Down. NET. **24.75**

52 50% More Buying Power with Your Allied Credit Fund Plan—See Page 360



# For Outstanding Music Enjoyment

# Bogen



## SOUND-SPAN SERIES

TP60

MULTIPLEX

AP60

**MODEL TP60 STEREO MULTIPLEX FM-AM TUNER.** Bogen's finest tuner. Employs Nuvistor front end for increased sensitivity and stability; electronic tuning indicators on FM and AM; variable AFC; illuminated "tune tabs" for quick tuning. *FM Response:* Flat to 75,000 cps. *FM Sensitivity:* 0.85  $\mu$ v for 20 db quieting at 75-ohm input; 2.8  $\mu$ v IHFM. Line-cord FM antenna; rotatable loopstick AM antenna. Provision for external AM and FM antennas. 10 tubes, 1 Nuvistor, 2 tuning eye tubes, plus 3 rectifiers. 6x16x9". Less case, below. For 110-120 v., 50-60 cycle AC. Shpg. wt., 20 lbs.

85 SU 611. No Money Down. NET.....269.95  
85 SX 571. EN-ST Metal Case For Above. Wt., 5 lbs. NET...13.95  
89 SX 877. WE-5 Wood Case. Walnut. Wt., 8½ lbs. NET...29.95

**MODEL AP60 STEREO AMPLIFIER.** Superb stereo amplifier-control center providing 33 watts-per-channel for a total 66-watt IHFM output. *Frequency Response:*  $\pm 1$  db. 18-30,000 cps. *Distortion:* Less than 0.8% at full output. *Hum:* -75 db. *Controls:* Separate Program Selectors; dual Volume; dual Bass; dual Treble; Blend; Speaker Selectors; Input; Loudness; Rumble Filter; Scratch Filter; Power; Balance; Tape Monitor, 12 tubes, 6 silicon rectifiers. 6x16x13½". Less case. For 110-120 v., 50-60 cycle AC. Wt., 34 lbs.

85 SU 610. No Money Down. NET.....249.95  
85 SX 570. EN-AT Metal Case. 5 lbs. NET.....13.95  
89 SX 880. WE-4 Wood Case. Walnut. 8½ lbs. NET.....29.95



MULTIPLEX

## RP40A STEREO MULTIPLEX FM-AM RECEIVER

**\$399.95**

NO MONEY DOWN

- Built-In Multiplex Circuit
- 44-Watt IHFM Power Output
- Separate AM and FM Sections
- Center Channel Output

The finest high-fidelity component Bogen offers. Combining a powerful 44-watt stereo amplifier, extraordinarily sensitive FM-AM tuner with multiplex circuit built-in, separate program selectors for each channel, and separate speaker selectors to control the functions of up to 4 speakers, on a single chassis. You can enjoy two different monophonic program sources in different parts of your home at the same time, or one stereo source. *Amplifier Output:* 22 watts per channel IHFM. *Amplifier Response:*  $\pm 1$  db, 18 to 30,000 cps. *Distortion:* Less than 0.8% at full output. *Hum & Noise:* -75 db. *Controls:* Programming Selectors; dual Volume; dual Bass; dual Treble; Blend; Speaker Selectors; Input; Loudness; Rumble Filter; Scratch Filter; AFC, etc. *FM Sensitivity:* 0.9  $\mu$ v for 20 db at 75-ohm input; 3  $\mu$ v IHFM. 23 tubes, 9 rectifiers. 6x16x13½". Less case. For 110-120 v., 50-60 cycle AC. Shpg. wt., 37 lbs.

85 SZ 609. No Money Down. NET.....399.95  
85 SX 570. EN-AT Metal Case. Wt., 5 lbs. NET.....13.95  
89 SX 880. WE-4 Wood Case. Walnut. 9 lbs. NET.....29.95



MULTIPLEX

Loaded with deluxe features, the "650" combines a 28-watt stereo amplifier with a highly sensitive, multiplex-equipped FM tuner.

## 650MX STEREO MULTIPLEX FM RECEIVER

NET  
**\$249.95**

NO MONEY DOWN

Fine performing tuner-amplifier at moderate cost. 14-watt per channel amplifier includes Dimension control that varies stereo spread; individual bass, treble and level controls for each channel; push-button selection of music source; tape monitor inputs and outputs; and push-pull compensated-loudness switch. *Amplifier Response:*  $\pm 1/2$  db, 20-35,000 cps. FM section features built-in multiplex adapter; "micro-beam" tuning eye; and AFC for lock-in tuning. *Sensitivity:* 1  $\mu$ v for 20 db quieting; 2  $\mu$ v for 30 db quieting IHFM. Includes center-channel output; DC on preamp filaments for low hum and noise; facilities for every stereo and monophonic source. 5x14½x12". Less case. For operation from 105-125 volts, 60 cycle AC. Shpg. wt., 23 lbs.

85 SU 613. No Money Down. NET.....249.95  
85 SX 573. Vinyl-Clad Case. 5 lbs. NET.....11.95  
89 SX 449. Wood Case. Walnut veneer. 8 lbs. NET.....20.00



stereo by crosby

## R80 STEREO FM-AM RECEIVER

NET  
**\$375.00**

NO MONEY DOWN

Superb tuner-amplifier for deluxe home music systems. Includes 80-watt stereo amplifier, and separate FM and AM tuners on a single chassis. Includes provision for addition of auxiliary multiplex adapter (listed below). *Amplifier Response:*  $\pm 1/2$  db, 20-30,000 cps at 25 watts per channel IHFM. *Controls:* 2—Bass; 2—Treble; Balance; Master Volume; Speaker/Headset; Mono/Stereo Blend; Selector (FM, AFC Defeat, AM, Mx, Aux, Tape, Phono); On-Off; Dimension; Scratch Filter; Rumble Filter; Phasing; Normal-Reverse; Loudness-Contour; Tape Monitor; etc. *FM Sensitivity:* 1  $\mu$ v for 20 db; 2  $\mu$ v for 30 db IHFM. 5x16½x14½". Less case. For 105-125 v., 60 cycle AC. Shpg. wt., 43 lbs.

85 SU 614. No Money Down. NET.....375.00  
85 SX 615. Multiplex Adapter For Above Only. 4 lbs. NET.....49.95  
85 SX 574. Metal Case. 5 lbs. NET.....17.95  
89 SX 575. Wood Case. Oiled Walnut veneer. 8 lbs. NET.....30.00

**NO MONEY DOWN**  
**ALLIED'S CREDIT FUND PLAN**  
Enjoy stereo hi-fi now with no money down... 24 months to pay!

## MX-101 MULTIPLEX ADAPTER

Self-powered multiplex adapter includes dimension control; selector switch (stereo, filter); push push On-Off switch. Pilot light 4½x5¼x9". With case and cable. For 105-125 v., 60 cycle AC. Wt., 5 lbs.

89 SU 137. No Money Down. NET.....69.95



Open an Allied Credit Fund Account—See Page 360

# Pilot

## Outstanding Hi-Fi Stereo Components



Model 6025

### MULTIPLEX

#### MODEL 6025 STEREO MULTIPLEX FM-AM RECEIVER

NET

**\$299.50**

**NO MONEY DOWN**

- Automatic Multiplex Feature
- Test Panel for Tube Balancing
- Center Channel Output
- Distinctive Black and Brass Styling

Ranking among the finest of new audio components, the Model 6025 provides built-in Stereo FM Multiplex reception, FM or AM reception alone, added to a powerful 30-watt stereo amplifier. A complete, deluxe stereo source and control center-amplifier in a single compact package—no larger than a stereo tuner alone. Just add a speaker system and record player for a complete music center.

**FM Section:** Low noise triode RF amplifier; low-noise triode converter; 3 IF amplifier stages; wide band detector; precision tuning indicator (combined with AM tuning indicator); built-in power line cord FM antenna; terminals for external 300 ohm balanced antenna; wide band RF and IF circuits that handle full modulation without distortion; non-critical tuning; drift-free performance. FM sensitivity, 3  $\mu$ V IHFM standard. **AM Section:** Features a drift-free, high efficiency circuit for outstanding reception.

**Preamplifier Section:** 3 pairs of non-shorting inputs. One pair, high level for permanent connection of tape recorder or TV. Two pairs low level for permanent connection of any two of the following: turntable, record changer, tape head. **Outputs:** One pair for tape output. **Front Panel Controls:** FM Tuning; Master Volume (ganged); Bass and Treble; Input Selector (Tuner, Tape Recorder, Tape Head, Phono); Mode Selector (Mono A, Mono B, Stereo Normal, Stereo Reverse); AM Tuning. **Automatic Shut-Off, Out-In Power, Loudness and Tape Monitor switches.** **Amplifier Section:** Power output 30 watts total, 15 watts per channel. **Frequency Response:** 20-20,000 cps,  $\pm 1$  db. **Hum and Noise:** —80 db. **Harmonic Distortion:** 1% at full output. **Output Impedance:** 4, 8, or 16 ohms. With beautiful black and brass case. Size,  $5\frac{1}{8} \times 14\frac{1}{2} \times 12\frac{3}{4}$ ". For 105-120 v., 60 cycle AC. Shpg. wt., 34 lbs.

**85 SU 632. No Money Down. NET.....299.50**

Exceptional dependability and superb sound reproduction highlight these music system components by Pilot. Distinctively styled and carefully engineered, these fine instruments are certain to please the eyes and ears of the most discriminating audiophile.

Model 380



Model 240

#### NEW MODEL 380 STEREO MULTIPLEX FM TUNER

New, popular-priced, fine-quality stereo FM multiplex tuner—a beautiful match for the 240 amplifier (below). The 380 features the built-in automatic multiplexer—automatically switches to stereo reception when the tuned-to-station is broadcasting stereo. Features include: Low-noise triode RF amplifier; low-noise triode converter; 3 IF amplifier stages; precision tuning indicator; built-in power line cord FM antenna. Terminals for external 300-ohm balanced antenna. Sensitivity, 3  $\mu$ V—IHFM Standard. FM level control on rear panel. Receives FM mono and FM multiplex broadcasts. Two output jacks; Channel A Out and Channel B Out. Size,  $5\frac{1}{8} \times 14\frac{1}{2} \times 10\frac{3}{4}$ ". For 105-120 v., 60 cycle AC. Shpg. wt., 18 lbs.

**85 SU 634. No Money Down. NET.....169.50**

#### MODEL 240 30-WATT STEREO AMPLIFIER

You get a wealth of features with this marvelous 30-watt stereo-phonetic control center-amplifier. Offers 15 watts per channel output for stereo reproduction, or full 30-watt output for monophonic operation. Special center-channel connection for 3-speaker stereo sound or for remote use. Highly attractive, black and brass styling. **Output:** 15 watts per channel; 30 watts total. **Response:**  $\pm 1$  db, 20-20,000 cps. **Harmonic Distortion:** less than 1%. **Sensitivity for Full Output:** Phono, 3 mv; Tuner, Multiplex, Tape, 10 mv. **Hum & Noise:** —80 db.  $5\frac{1}{8} \times 14\frac{1}{2} \times 10\frac{3}{4}$ ". For operation from 105-120 v., 60 cycle AC. With case. Shpg. wt., 23 lbs.

**92 SU 871. No Money Down. NET.....134.50**

#### NEW MODEL 246 60-WATT STEREOPHONIC AMPLIFIER

The performance, specifications and features of this fine unit offer the level of performance demanded by today's sophisticated audiophile. Important features of the Model 246 include: 4 independent tone controls to allow you to regulate either or both channels; tape-monitor switch. **Rated Output:** 30 watts per channel for stereo (60 watts peak) or 60 watts of monophonic power, at less than  $\frac{1}{2}$ % harmonic distortion. **Response:**  $\pm 1$  db, 20-20,000 cps. **Hum:** —80 db. **Inputs, 7 pairs.** With black and brass metal case.  $5\frac{1}{8} \times 14\frac{1}{2} \times 12\frac{3}{4}$ ". For 105-120 volts, 60 cycle AC. Shpg. wt., 30 lbs.

**85 SU 633. No Money Down. NET.....199.50**

**MODEL 248 74-WATT STEREO AMPLIFIER.** Not illus. Provides reserve power needed by the audio-perfectionist. **Response:**  $\pm \frac{1}{2}$  db, —1 db from 15-40,000 cps. Will meet or exceed other specs given above.  $4\frac{1}{8} \times 14\frac{1}{2} \times 10\frac{3}{4}$ ". For 105-120 v., 60 cycle AC. Wt., 38 lbs.

**89 SU 869. No Money Down. NET.....249.50**

**MARK II FM TUNER.** Economy-priced FM tuner featuring broad band detector, high sensitivity and no-drift tuning. Built-in line cord antenna, plus multiplex output jack. With charcoal gray case. Size,  $3\frac{1}{2} \times 9\frac{1}{4} \times 6\frac{1}{2}$ ". For 105-120 v., 60 cycle AC. Shpg. wt., 6 lbs.

**89 SX 849. No Money Down. NET.....49.95**

**NEW MODEL 200 AUTOMATIC FM MULTIPLEX ADAPTER.** Can be used with most tuners having multiplex jack. No controls; no switches! Automatically switches to stereo during multiplex transmission. Complete with handsome black and brass case. Size,  $5\frac{1}{8} \times 4\frac{3}{8}$ ". For 110-120 v., 60 cycle AC. Wt., 8 lbs.

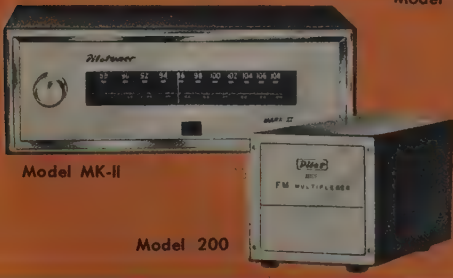
**85 SU 635. No Money Down. NET.....79.50**

**NEW MODEL 100 FM MULTIPLEX ADAPTER.** (Not illus.) Non-automatic version of above.  $5\frac{1}{8} \times 2\frac{3}{8}$ ". Wt., 3 lbs.

**85 SX 636. No Money Down. NET.....49.50**



Model 246



Model MK-II

Model 200



# Professional High-Fidelity Components by ...

# McIntosh

McIntosh means quality, throughout the audio field. Traditionally superior, this fine equipment is engineered to meet the most stringent professional and industrial standards.



## MODEL MR-66 FM-AM TUNER

NET  
**\$325.00**

Less Case

Masterfully engineered to please the most discriminating listener, this superb 18-tube stereo tuner provides outstanding FM-AM reception. **FM Section:** 3  $\mu$ v sensitivity at 100% modulation, IHFM standard. Incorporates 3 IF amplifiers, 2 limiters, squelch circuit for silence between stations. Variable AFC automatically disengages during tuning. **AM Section:** Band-pass front-end with flat-top characteristics for increased fidelity. 1.5  $\mu$ v sensitivity. Four positions of selectivity to permit listening with the least noise regardless of location; 10-kc whistle filter. Both AM and FM sections have tuning meters. **Outputs:** FM-AM stereo, FM only, AM only and multiplex to feed multiplex adapter (below). Less cabinet, below. 4 $\frac{1}{2}$ x15 $\frac{1}{2}$ x13". For 110-120 v., 50-60 cycle AC. 31 lbs.

89 SU 497. Less Case. NET. **325.00**

OILED WALNUT CABINET. For MR-66, C-20, MR-65. 6 $\frac{1}{4}$ x12 $\frac{1}{4}$ x16 $\frac{1}{2}$ ". Shpg. wt., 5 lbs.

89 SX 498. No Money Down. NET. **25.00**

85 SU 638. MA-2 Multiplex Adapter. For use with MR-66. External; self-powered. Shpg. wt., 8 lbs. NET. **74.50**

**MR-65 FM TUNER.** For the audio connoisseur—a high-performance FM tuner of monitor quality. Complete provision for the connection of the MA-3 multiplex adapter below. RF tuning section uses a cascode amplifier, designed to amplify weak signals for less noise and distortion. Three flat-topped IF amplifiers reject adjacent-channel interference. Circuit also includes two cascaded limiters, and two temperature-compensated discriminators. Specially designed AFC is automatically cut out during tuning. Sensitivity: 3 $\frac{1}{2}$   $\mu$ v at 100% modulation, IHFM standard. Controls: Volume, Selector (Power Off, FM, Multiplex Stereo, External Stereo), AFC, Muting. Includes front-panel tuning meter, and signal-strength meter. Less cabinet, listed below the MR-66. For 105-125 v., 50-60 cycle AC. Size, 5 $\frac{1}{2}$ x15 $\frac{1}{2}$ x12 $\frac{1}{2}$ ". Shpg. wt., 31 lbs.

89 SU 123. Less Case. NET. **225.00**

85 SU 639. MA-3 Plug-in Multiplex Adapter. 5 lbs. NET. **59.00**

**MC-240 80-WATT STEREO BASIC AMPLIFIER.** Designed to meet the highest professional standards, the MC-240 incorporates traditionally superior McIntosh craftsmanship. **Output:** 80 watts (40 watts per channel). **Response:**  $\pm$ 0.1 db, 20 to 20,000 cps, full power;  $\pm$ 1.0 db, 15 to 60,000 cps, full power;  $\pm$ 1.5 db, 10 to 100,000 cps, half power. **Harmonic and IM Distortion:** less than 0.5%, 20 to 20,000 cps. **Hum and Noise:** better than 90 db below rated output. **Outputs:** stereo—4, 8, 16 (25 v.), 125 (70.7 v.), 600 ohms; mono—2, 4, 8 (25 v.), 16, 32, 62 (70.7 v.), 300 ohms. Four 6L6GC output tubes. Gain and balance controls. For 105-130 v., 50-60 cycle AC. 10 $\frac{1}{2}$ x17 $\frac{1}{2}$ x16 $\frac{1}{2}$ ". Shpg. wt., 60 lbs.

89 SZ 496. No Money Down. NET. **288.00**

**MC-275 150-WATT STEREO BASIC AMPLIFIER.** (Not illus.) Same fine specifications as the MC-240 above, but with an even greater reserve of power. **Output:** 150 watts (75 watts per channel). **Response:**  $\pm$ 0, -0.1 db, 16-40,000 cps, full power;  $\pm$ 0, -0.5 db, 16-60,000 cps, full power;  $\pm$ 0, -1 db, 10-100,000 cps, full power. **Output Impedances:** stereo—4, 8, 16, 67, 150, 600 ohms; mono—2, 4, 8, 16, 32, 34, 75, 300 ohms. **Output Voltages:** 25, 70.7, 115, 230 v. Four 6550 output tubes. 8x12x17 $\frac{1}{4}$ ". Shpg. wt., 86 lbs.

85 SZ 640. No Money Down. NET. **444.00**

**MC-75 75-WATT BASIC AMPLIFIER.** This outstanding basic amplifier represents a remarkable achievement in audio engineering. An ideal unit for use in a monophonic music system, or as one channel in a stereo system. Has the same electrical specifications as the MC-275, above. **Output Impedances:** 4, 8, 16, 67, 150 and 600 ohms. **Output Voltages:** 25, 70.7, 115 and 230 volts. Two 6550 output tubes. For operation from 117-125 v., 50-60 cycle AC. Size, 8 $\frac{1}{2}$ x8 $\frac{1}{2}$ x16 $\frac{1}{4}$ ". Shpg. wt., 49 lbs.

89 SZ 126. No Money Down. NET. **229.50**



## MODEL C-20 STEREO PREAMPLIFIER

NET  
**\$234.00**

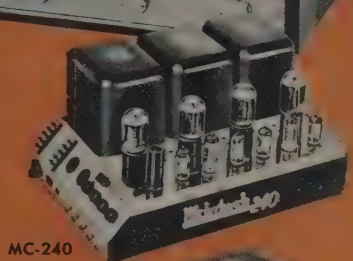
Less Case

Highly advanced in control flexibility, the Model C-20 preamplifier-compensator is designed to provide complete command over stereo or monophonic music reproduction. Fifteen pairs of stereo inputs make this exceptional unit compatible with professional recording and broadcast installations. Superior quality of engineering and construction permit the C-20 to amplify the smallest signal without distortion. Controls: Input Selector (Aux., Tape, Tuner 1 and 2 Stereo or Mono, Phono 1 and 2 Stereo or Mono, Tape Head 1 and 2); Function Selector (Stereo Normal or Reverse, Left channel only, Right channel only, M-Left—left channel to both speakers, M-Right—right channel to both speakers); separate Bass and Treble controls; separate Bass and Treble compensator switches, including RIAA, LP, Tape Head, flat position; Balance, to balance unequal program sources; Phase, to reverse phase in left channel to correct for speaker or program phasing; Loudness; High-Frequency Cutoff Filter; Rumble Filter switch; Tape Jack switch; Volume On-Off, Low-Frequency Trim controls. **Response:**  $\pm$  $\frac{1}{2}$  db, 20 to 20,000 cps. **Distortion:** less than 0.2%. **Hum and Noise:** -85 db. Size (HWD), 5 $\frac{1}{2}$ x15 $\frac{1}{2}$ x12 $\frac{1}{2}$ ". Less cabinet, listed below the MR-66 at left. For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 29 lbs.

92 SU 836. Less Case. NET. **234.00**



MR-65



MC-240



MC-75

McIntosh High Fidelity Components Are Available on Allied's Credit Fund Plan



### Deluxe Model ST-96K FM-AM Tuner Kit

NET  
**\$89.95**

The most critical sections—RF stages, IF stages, FM "front end" and "eyetronic" tuning assembly—are pre-wired and pre-aligned at the factory—wiring is reduced to a minimum.

NO MONEY DOWN

Low-cost tuner kit with separate FM and AM sections. Features separate "Eye-tronic" tuning eye indicators that contract into an exclamation point when station is perfectly tuned. Pre-aligned FM front end is completely shielded in a die-cast housing—provides exceptional sensitivity and high stability. FM section has AFC for "lock-in" tuning, with AFC defeat for tuning weak stations adjacent to strong ones;  $1\frac{1}{2}$   $\mu$ v sensitivity for 20 db quieting; broad band ratio detector for improved capture ratio and easier tuning. 5x15 $\frac{1}{2}$ x14". 12 tubes, diode and rectifier. With metal case. For 110-120 v., 60 cycle AC. Shpg. wt., 24 lbs.

89 SX 442. No Money Down. NET.....**89.95**

MODEL ST-96. As above, but factory-wired.

89 SU 443. No Money Down. NET.....**129.95**

### MULTIPLEX ADAPTER KIT FOR ABOVE

MODEL MX-99. Self-powered unit allows you to receive stereo multiplex broadcasts with all Eico FM tuners. Plug-in connection. "Stereo beacon" lights when multiplex transmission takes place. 9 $\frac{1}{2}$ x6 $\frac{1}{2}$ x3 $\frac{1}{2}$ ". With metal case. Shpg. wt., 7 lbs.

85 SX 617. NET....**39.95**



### Deluxe Model ST-40K Stereo Amplifier Kit

NET  
**\$79.95**

NO MONEY DOWN

Moderately-priced 40-watt stereo amplifier featuring 2 switched sets of stereo inputs for magnetic phono, tape head, FM-AM stereo tuners, FM-AM multiplex, and auxiliary (2); clutch-operated concentric level, bass and treble controls for each channel; tape monitor switch; rumble filter; and volume/loudness switch. Response:  $\pm 1$  db, 12-25,000 cps. Distortion: 1M, 1% at 40 watts; Harmonic,  $\frac{1}{2}$ % at 40 watts. 4—7591 output tubes. 5x15 $\frac{1}{2}$ x14". With metal case. For 110-120 volts, 60 cycle AC. Shpg. wt., 35 lbs.

89 SU 856. No Money Down. NET.....**79.95**

MODEL ST-40. As above, but factory-wired.

89 SU 857. No Money Down. NET.....**129.95**

MODEL ST-70K 70-WATT STEREO AMPLIFIER KIT. Not illus. Has full array of controls, tape monitor, concentric, separate bass and treble controls for each channel, etc. Response:  $\pm 1$  db, 9-60,000 cps. Distortion: 1M, 1% at 70 watts; Harmonic,  $\frac{1}{2}$ % at 70 watts. 5x15 $\frac{1}{2}$ x16". With all parts, cover, instructions. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 44 lbs.

89 SU 858. No Money Down. NET.....**94.95**

MODEL ST-70. As above, but factory-wired.

89 SU 859. No Money Down. NET.....**149.95**

### Model HF-85K Stereo Preamp Kit



NET  
**\$39.95**

NO MONEY DOWN

Economy-priced stereo preamp kit that offers virtually every control and switching facility. Extremely versatile—perfect for use with any of the Eico basic amplifiers listed at right. Offers exceptionally low distortion, bordering on the unmeasurable. Separate low-level input in each channel for magnetic phono, tape head and microphone. RIAA-phono equalization; choice of proper NARTB tape head equalization for all tape speeds. Separate high-level inputs for AM tuner, FM tuner and FM multiplex. Two auxiliary A inputs (1 in each channel) and 2 auxiliary B inputs (1 in each channel). Independent level, bass and treble controls for each channel may be operated separately or together with built-in clutch. Handy mode selector switch permits listening to each channel separately, reversing channels or choosing either stereo or monophonic operation.

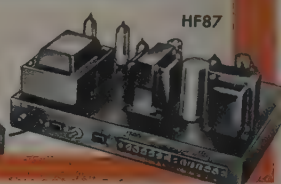
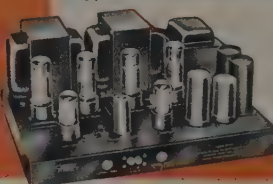
Sensitivity (input for 2 v. RMS output at 1000 cps): Magnetic Phono, 1 mv; Mic, 1 mv; Tape Head, 0.5 mv; High-Level inputs, 0.17 v. Tubes: 5—12AX7/ECC83; 6X4 rectifier. Supplied complete with metal case. 3 $\frac{1}{2}$ x12x8 $\frac{1}{4}$ ". For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 10 lbs.

83 SX 976. No Money Down. NET.....**39.95**

89 SX 339. Model HF85. Factory-wired. NET.....**64.95**

85 SX 576. Wood Cabinet for Above. Walnut. 4 lbs. NET.....**12.50**

### HF89 Outstanding Stereo Basic Amplifiers



MODEL HF89K 100-WATT STEREO BASIC AMPLIFIER KIT. Perfect for use with the HF85 stereo preamp at left. Four EL34 output tubes; silicon diode rectifiers and massive output transformers contribute to its clean performance. 1M Distortion: 0.5% at 100 watts. Response:  $\pm 0.5$  db, 5 to 100,000 cps. Hum: 90 db. 6x11x15". For 110-120 v., 60 cycle AC. Shpg. wt., 37 $\frac{1}{2}$  lbs.

89 SU 436. No Money Down. NET.....**99.50**

89 SU 437. Model HF89. Factory-wired. NET.....**139.50**

MODEL HF87K 70-WATT STEREO BASIC AMPLIFIER KIT. Provides 70 watts of stereo or monophonic sound. Four EL34 output tubes. Same specifications as above, but 1M distortion is 1% at 70 watts. 6x15x11". Less case. For 110-120 v., 60 cycle AC. 32 lbs.

89 SU 346. No Money Down. NET.....**74.95**

89 SU 347. Model HF87. Factory-wired. NET.....**114.95**

89 SX 348. Case for HF87 or HF87K. Wt., 4 lbs. NET.....**4.50**

MODEL HF86K 28-WATT STEREO BASIC AMPLIFIER KIT. Not illus. Employs Williamson-type circuit with push-pull EL84 output tubes. Response:  $\pm 0.5$  db, 10 to 100,000 cps. 1M Distortion: 1.5% at 28 watts. Hum: -90 db. 5x13 $\frac{1}{2}$ x9". For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 16 lbs.

89 SX 344. No Money Down. NET.....**43.95**

89 SU 345. Model HF86. Factory-wired. NET.....**74.95**



# Performance . . . at Low Cost

# EICO®



## Model HF-81K 28-Watt Stereo Amplifier Kit

NET  
**\$69.95**

NO MONEY DOWN

Low cost, 28-watt stereo amplifier kit that accommodates any stereo or monophonic signal source. Provides 14 watts per channel for stereo; at the flick of a switch becomes a 28-watt monophonic amplifier. Separate low-level inputs in each channel for magnetic phono, tape head and microphone. High-level inputs for AM tuner, FM tuner and FM multiplex. **Frequency Response:** ±0.5 db, 10-100,000 cps at 1 watt per-channel output. **Distortion:** Harmonic, less than 1% from 30-10,000 cps at 8 watts per channel; IM, 0.5% at 5 watts per channel. **Controls:** Input Selector; Function Selector; ganged Level; ganged Bass; ganged Treble; Blend. 10 tubes, 2 rectifiers, 4¼x15x10½". With metal case. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 24 lbs.

83 SU 970. No Money Down. NET ..... 69.95

89 SU 337. Model HF-81. Factory-wired. NET ..... 109.95

85 SX 577. Wood Cabinet For Above. Walnut, 4 lbs. NET ..... 13.95



## Model HFT-90K FM Tuner Kit

NET  
**\$39.95**

NO MONEY DOWN

Unusually low in cost, the HFT-90K features pre-wired, pre-aligned front end; "Eye-tronic" tuning indicator that contracts into an exclamation point when station is perfectly tuned; and temperature-compensated components for fine sensitivity and stable, drift-free performance. With jack for addition of multiplex adapter, listed below. **Sensitivity:** 1½ µv for 20 db quieting. 6 tubes, tuning indicator and rectifier. 3½x12x8¼". Less case. For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 10 lbs.

87 SX 245. No Money Down. NET, less Case, ..... 39.95

89 SU 338. Model HFT-90. Factory-wired. Less case. NET ..... 65.95

87 SX 246. E3 Metal Case for Above. Wt., 3 lbs. NET ..... 3.95

85 SX 576. Wood Case. Oiled walnut. Wt., 4 lbs. NET ..... 12.50

85 SX 617. Multiplex Adapter Kit for all Eico FM tuners. Self-powered. 9½x6½x3¾". Shpg. wt., 7 lbs. NET ..... 39.95



## Model HFT-94K AM Tuner Kit

NET  
**\$39.95**

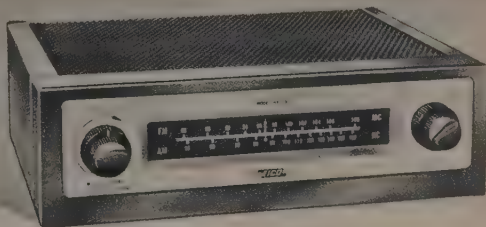
NO MONEY DOWN

Includes wide and narrow bandpass; tuned RF stage and built-in ferrite loop antenna. High-Q filter eliminates 10-kc whistle. Pin-point "Eye-tronic" tuning indicator contracts to exclamation point when station is perfectly tuned. Pre-aligned RF and IF coils. Concentric knob for Volume/Off On and Wide-Normal Selector; plus Tuning. 4 tubes, tuning eye, rectifier and diode. 3½x12x8¼". Supplied complete with metal case. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 12 lbs.

89 SX 340. No Money Down. NET ..... 39.95

89 SU 341. Model HFT-94. Factory-wired. NET ..... 65.95

85 SX 576. Wood Case. Oiled walnut. Wt., 4 lbs. NET ..... 12.50



## Model HFT-92K FM-AM Tuner Kit

NET  
**\$59.95**

NO MONEY DOWN

An excellent value in an FM-AM tuner kit—features pre-wired, pre-aligned front end for ease of assembly. Temperature-compensated components for fine sensitivity and stable performance. "Eye-tronic" tuning indicator. Multiplex jack; see adapter listed below HFT-90, above. **FM Sensitivity:** 1½ µv for 20 db quieting. Hum: -60 db. Concentric knobs: Off-On/Volume and FM-AM Selector; FM-AM Tuning. 6 tubes; tuning indicator; rectifier. 3½x12x8¼". With metal case. For 110-120 v., 60 cycle AC. Wt., 12 lbs.

89 SX 373. No Money Down. NET ..... 59.95

89 SU 374. Model HFT-92. Factory-wired. NET ..... 94.95

85 SX 576. Wood Case. Oiled walnut. Wt., 4 lbs. NET ..... 12.50

## 6-Transistor Portable Kit

NET  
**\$29.95**

NO MONEY DOWN



Model RA6K. Modern superhet with all-transistor circuitry and large 4x6" PM speaker. Push-pull audio output for full-toned "big-set" response. Built-in ferrite rod antenna provides excellent reception even under difficult conditions. Simulated leather case with retractable handle. Size, 4½x8½x2½". Less battery (1 required), listed below. Shpg. wt., 3 lbs.

85 SX 550. No Money Down. NET ..... 29.95

85 SX 551. As above, factory-wired. NET ..... 49.95

80 J 684. Burgess 2N6 Standard Battery. NET EACH ..... 1.30

## HFS3 3-Way Speaker System Kit

Unfinished or Oiled Walnut



Sheli-size 3-way system featuring 12" woofer (with 1¾-lb. magnet); 8" mid-range speaker; and 3½" cone tweeter; in a solid, ¾" factory-constructed enclosure. No woodworking required; just mount speaker components on the studs supplied. LC network at 600 cps; high-pass filter at 4000 cps. **Frequency Response:** 45-14,000 cps. Power handling capacity, 30 watts. Requires 10 watts audio. 26½x13½x4½". Impedance, 16 ohms. Shpg. wt., 45 lbs.

70 DU 697. Unfinished. No Money Down. NET ..... 72.50

70 DU 698. Oiled Walnut. No Money Down. NET ..... 87.50

Allied Guarantees Your Complete Satisfaction

# dynakit

# Quality Component Kits



## PAS-2 Stereo Preamplifier Kit

NET

**\$5995**

NO MONEY DOWN

Performance-acclaimed stereo preamp with complete control facilities. Ideal for use with top-quality basic amplifier. Some of its many features include "Dyna Blend" control for variable channel separation, DC-heated tube filaments and four AC convenience outlets. Excellent transient performance. All critical circuit phases are pre-assembled on two printed circuit boards—assembly time is reduced to approximately 8 hours. **Response:**  $\pm 1/2$  db, 10-40,000 cps. **IM Distortion:** less than 0.05% at 2-volt output. **Noise:** less than 3  $\mu$ v equivalent noise input on RIAA. **Controls:** Selector, Volume, Balance, Blend, separate Bass and Treble for each channel, Tape Monitor switch, On/Off, Loudness, Scratch Filter. **Inputs:** 3 stereo low level—RIAA Phono, NARTB Tape Head, Special (for second phono, tape head or mike); 4 stereo high level—FM Multiplex, FM-AM, Aux., Tape Monitor. **Outputs:** Audio, Tape Recorder. **Transient Performance:** Passes square waves without deformation or ringing from 20 to 20,000 cps at any volume control setting. 4—12AX7/ECC83, plus rectifiers. With charcoal brown textured vinyl case. 4x13x8". For 110-120 v., 50-60 cycle AC. Shpg. wt., 11 lbs.

89 SX 313. NET..... 59.95

89 SX 326. Above, factory wired. NET..... 99.95



## "Stereo 70" 70-Watt Basic Amplifier Kit

NET

**\$9995**

NO MONEY DOWN

Make this high-performance basic amplifier the heart of your stereo music system. The "Stereo 70" delivers 35 watts per channel, for a full 70 watts of stereo output. Peak power is 80 watts per channel. Provides outstanding hi-fi sound—firm, perfectly defined bass and smooth, natural highs. Use of printed circuitry, detailed step-by-step instructions and large pictorial diagrams permits you to easily assemble the

"Stereo 70" in approximately 5 hours.

Designed for utmost reliability—output tubes are operated at only 65% of capacity, filter capacitors at less than 85% of rated voltage. Features include matched output tubes, stereo-mono switch, provision for powering two preamps without interaction.

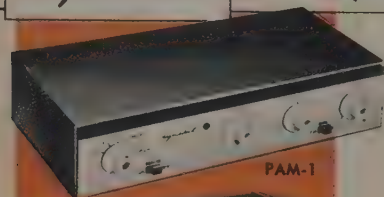
**Response:**  $\pm 0.5$  db from 10 to 40,000 cps. **IM Distortion:** less than 1% at 70 watts. **Output Impedances:** 4, 8, and 16 ohms. **Hum and Noise:** better than 90 db below rated output. Nickel-finish chassis; vinyl-coated charcoal brown cover. 4—EL-34's, 2—7199's, GZ-34, selenium rectifier. Size (HWD), 6 $\frac{1}{2}$ x9 $\frac{1}{2}$ x13". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 32 lbs.

92 SU 873. NET..... 99.95

89 SU 323. Above, factory wired. NET..... 129.95

# dynakit

## Quality Monophonic Component Kits . . .



PAM-1



MARK IV



MARK III

### PAM-1 MONOPHONIC PREAMPLIFIER KIT

Full-flexibility preamp for use with any basic amplifier—printed circuit board cuts building time to approximately 6 hours. **Inputs:** low-level mag., high-level mag., radio, TV, tape, "special" (optional second phono, tape head or mike). **Controls:** Selector and equalization, Bass, Treble, Volume, Tape Monitor switch, Loudness Compensation switch, Hum Balance. **Distortion:** less than 0.05% 1M, at 2 v.; harmonic unmeasurable. **Response:**  $\pm 0.5$  db, 10 to 40,000 cps. 2—12AX7/ECC83; DC on filaments; 4 AC convenience outlets. Requires PS-1, below, when used with other than Dynakit amplifier (requires 200-400 v. DC at 3-4 ma., 6 v. AC at  $\frac{3}{4}$  amps). Charcoal brown baked vinyl finish. 2 $\frac{1}{2}$ x12x6". 7 lbs.

83 SX 005. NET..... 34.95

89 SU 327. Above, factory wired. NET..... 59.95

83 S 038. PS-1 Power Supply Kit. Enables powering of a single PAM-1, or a pair for stereo. 2x5x5". For 110-120 v., 50-60 cycle AC. Shpg. wt., 2 $\frac{3}{4}$  lbs. NET..... 8.95

89 S 329. Above, factory wired. NET..... 14.95

83 S 037. DSC-1 Stereo Control Kit. Adds plug-in stereo control flexibility to two Dynakit preamps. Charcoal brown. 5 $\frac{3}{4}$ x1 $\frac{3}{4}$ x6". 2 lbs. NET..... 12.95

89 S 328. Above, factory wired. NET..... 18.95

### MARK IV 40-W BASIC AMPLIFIER KIT

An economically-priced 40-watt basic monophonic amplifier—works perfectly with the PAM-1 or PAS-2 preamp. Printed circuit board cuts assembly time to less than 3 hours. **Response:**  $\pm 0.5$  db, 10 to 40,000 cps. **IM Distortion:** less than 1% at 40 watts. **Hum and Noise:** 90 db below 40 watts. **Output Impedances:** 4, 8 and 16 ohms. Matched EL-34's in output. 6 $\frac{1}{2}$ x14x5". For 110-120 v., 50-60 cycle AC. 20 lbs.

89 SU 321. NET..... 59.95

89 SU 325. Above, wired. NET 79.95

### MARK III 60-W BASIC AMPLIFIER KIT

Even a beginner can easily assemble this deluxe 60-watt basic monophonic amplifier kit! Less than 3 hours building time. Ideal for use with PAM-1 or PAS-2 preamps above. **Response:**  $\pm 0.5$  db, 6 to 60,000 cps. **IM Distortion:** less than 1% at 60 watts. **Hum and Noise:** —90 db below 60 watts. **Output Impedances:** 4, 8 and 16 ohms. Matched pair of KT-88's in output. 6 $\frac{1}{2}$ x9x9". For 110-120 v., 50-60 cycle AC. 28 lbs.

83 SU 004. NET..... 79.95

89 SU 324. Above, wired. NET 99.95



# for the Audio Perfectionist...

# *dynakit*



## FM-1 DYNATUNER

A top-performance hi-fi component—available in kit, "semi-kit," or factory-wired form. For stable, sensitive reception, free from distortion.

## *dynatuner* QUALITY FM TUNER

ONLY  
**\$79.95**

**NO MONEY DOWN**

simple adjustment for peak performance without the use of any external test equipment—all coils are pre-aligned.

Planetary-drive tuning system eliminates dial-cord stringing and gives smooth, accurate tuning without backlash. Additional features include the use of minimum phase shift IF's, wide-band detection and linear design. Wide-band design and drift under 0.025% make AFC unnecessary. Excellent sensitivity—4  $\mu$ v by IHFM standards. Less than 0.5% 1M or harmonic distortion from 10  $\mu$ v to 100,000  $\mu$ v, at 100% modulation. Audio noise level is 75 db below 100% modulation. Provision for multiplex (adapter at right). 4x13x8". For 110-120 v., 50-60 cycle AC. Shpg. wt., 12 lbs.

89 SX 898. NET. **79.95**

WIRED DYNATUNER. FM-1, factory wired.

89 SU 899. NET. **119.95**

FM-1 SK DYNATUNER "SEMI-KIT." An FM-1 tuner kit with all parts on printed circuit board mounted and dip soldered, and every major component secured to the chassis. All that is required to complete assembly is mounting and wiring of power supply and tuning-eye parts—readily accomplished in 3 hours. Shpg. wt., 12 lbs.

85 SX 618. NET. **99.95**

FMX-3 MULTIPLEX ADAPTER KIT. Permits stereo reception with the FM-1 tuner. Fits inside tuner chassis. 4 lbs.

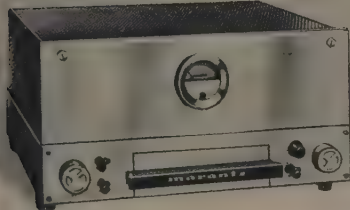
85 SX 619. NET. **29.95**

FMA-2 10-WATT AMPLIFIER KIT. Fits inside the FM-1 tuner, converting it into a complete FM radio (less speaker). Occupies chassis cutout provided for multiplex adapter. Full high-fidelity performance; response is  $\pm 1$  db, 12 to 35,000 cps. Excellent transient response—affords clean transfer of 10-kc square waves. Readily assembled using prefab modules. Shpg. wt., 4 lbs.

85 SX 620. NET. **29.95**

## Deluxe Audio Components by...

## **marantz**



**Model 9  
70-Watt  
Basic  
Amplifier**

**MODEL 9 70-WATT BASIC.** Craftsmanship and performance, synonymous again with the Marantz name, are embodied in this deluxe 70-watt monophonic basic amplifier. All controls, for convenience, are located on the front panel; a small removable panel covers connections and bias adjustments. Triode switch changes from 70-watt "screen tap" to nearly 40 watts of triode operation. Sharp cutoff switch provides filtering of subsonic disturbances. Has phasing switch; test switch and meter for dynamic balance of tubes, AC and DC balance. Uses four EL34 tubes in the output stage. Response,  $\pm 0.1$  db, 20 to 20,000 cps at full 70-watt output. Harmonic distortion, under 0.1%. Imp. 4, 8, 16 ohms. 4—EL34 output tubes. 7x13x13 1/2". For 105-125 v., 50-60 cycle AC. 63 lbs.

89 SZ 124. NET. **324.00**

**MODEL 8B 70-WATT BASIC.** Traditional Marantz superiority is proven once again with this 70-watt stereo basic amplifier. Each channel delivers 35 watts (70 watts peak). Changing 2 connections allows 18-watt triode operation of each channel. Built-in bias meter. Response,  $\pm 0.2$  db, 20-20,000 cps at rated output. Harmonic distortion, under 0.1%. Imp. 4, 8, 16 ohms. 4—EL34 output tubes. 7x13x13 1/2". For 105-125 v., 50-60 cycle AC. Wt., 55 lbs.

85 SZ 641. NET. **249.00**

89 SX 365. Grille for Above. 1 lb. NET. **9.00**



## MODEL 7 STEREO CONSOLE PREAMPLIFIER

A self-powered stereo preamplifier of the highest quality. Features remarkable control versatility, ease of operation and professional workmanship. **Rear Panel:** output level adjustments; 3 pairs of outputs; tape-head equalizer adjustments: 6 AC outlets; 9 pairs of inputs; system ground. **Front Panel Controls:** 8-pos. Selector (Mic, Phono 1, Phono 2, NARTB Tape Head, FM-AM, FM Multiplex, TV, Auxiliary); 5-pos. Mode (Stereo, Stereo Reverse, Channel A, Channel B, Channel A + B); Volume; Balance; Two Treble controls; two Bass controls; Phono Equalizer—settings are RIAA, old COL LP, early 78); Tape Playback or Monitor; High Filter; Rumble Filter; and Off-On switch. A deluxe instrument suitable for use in the finest systems.

Response:  $\pm 1/2$  db, 20-20,000 cps. **IM Distortion:** 0.02%. **Noise:** 80 db below 10 mv phono input with RIAA curve. **Tubes:** 6—12AX7/ECC83. 5 1/2 x 15 1/2 x 8 1/2". Less cabinet, below. For 110-120 v., 50-60 cycle AC. Shpg. wt., 16 lbs.

92 SU 826. NET. **264.00**

**WOOD CABINET FOR ABOVE.** Oiled walnut. Size of cabinet (HWD): 6 1/2 x 17 1/2 x 10 1/2". Shpg. wt., 4 lbs.

92 SX 827. NET. **24.00**

Express Shipment Recommended for High-Fidelity Equipment

# Wolverine Hi-Fidelity Components

by **ElectroVoice**

## NEW! LT12 12" 3-Way Hi-Fi Speaker

ONLY **\$289** NO MONEY DOWN



Rigid Cast Chassis  
Sonophase VHF Driver  
Radax Coaxial Cone  
Ceramic Magnet

Newest addition to the low-cost Wolverine speaker line, the LT-12 features latest refinements from the E-V laboratories. Offers extended bass response from its 12" woofer cone; exclusive Radax cone for outstanding clarity in the mid-range frequencies; and clearest treble reproduction through the use of an integral Sonophase VHF driver. Other noteworthy features include the use on patented, 12-oz. ceramic "Indox" magnet; rigid, die-cast metal chassis; and 2½" edgewise wound, ribbon voice coil. Taken together, the LT12 components provide a surprising degree of musical balance from a speaker at this modest a price. Frequency response extends from 40 to 18,000 cps. Built-in electrical crossover network crosses over at 3500 cps. Balance control adjusts brilliancy to room acoustics or personal listening tastes. Power handling capacity, 20 watts program material. Impedance, 8 ohms. Depth, only 6". Shpg. wt., 15 lbs.

70 DX 386, No Money Down. NET.....28.91

### FULL-RANGE MODEL LS-15 15" HI-FI SPEAKER

Beautifully performing, popular 15" high-fidelity loudspeaker. Delivers remarkably clean frequency response from 35-13,000 cps. Construction features include: a heavy-duty, die-cast frame for precision alignment of critical parts; Radax construction (special radiator cone for treble); low-silhouette frame for convenient wall installation; and edgewise-wound voice coil of precision-flattened ribbon conductor for approximately 18% increased efficiency. Cone resonance, 35-45 cps. Program handling capacity, 30 watts. Mechanical crossover frequency, 4500 cps. Speaker has depth of 6½"; requires baffle opening of 13½". Diameter, 15½". Voice coil impedance, 8 ohms. Shpg. wt., 10 lbs.

70 DX 264, No Money Down. NET.....24.01

### HIGHLY POPULAR MODEL LS-12 12" HI-FI SPEAKER

Moderately priced 12" high-fidelity speaker that's ideal for use in inexpensive stereo music systems. Perfectly matches Electro-Voice "Marquis" and "Aristocrat" enclosures shown elsewhere in this section catalog. Provides exceptionally clean, smooth frequency response from 40-13,000 cps. Contains all the valuable design features of the Wolverine LS-15 speaker, described above. Cone has resonant frequency of 50-65 cps. Uses tough, one-piece molded cone. All internal parts are precision-ground to jewel-like accuracy. Power handling capacity: 30 watts program material. Mechanical crossover at 4500 cps. Impedance, 8 ohms. Size of speaker is 12¼x3¾" deep. Requires 11" dia. baffle opening. Shpg. wt., 7 lbs.

82 DX 850, No Money Down. NET.....19.11

### ECONOMY-PRICED MODEL LS-8 8" HI-FI SPEAKER

A favorite 8" speaker for budget-priced systems—and an outstanding choice where space is limited. Manufactured to highest standards to assure exceptionally fine, full-range reproduction. Features crisp, highly authentic response from 55-13,000 cps. Two of these value-packed speakers are excellent in stereo systems where space as well as cost are important considerations. Also used as extension speakers to spread hi-fi throughout the home. Has cone resonance of 60-80 cps. Power handling capacity, 30 watts of program material. Mechanical crossover frequency, 6000 cps. 8¼" diameter; only 3½" deep. Requires baffle opening of 7¼". Impedance, 8 ohms. Shpg. wt., 4½ lbs.

82 D 851, No Money Down. NET.....17.64

## MID-RANGE AND HIGH-FREQUENCY STEP-UP KITS

### MODEL MF-1 MID-RANGE COMPONENTS KIT

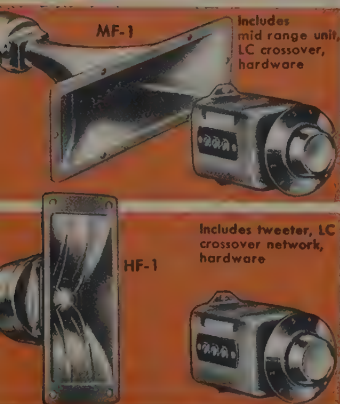
Excellent mid-range components for use in making up a three-way speaker system. Can also be used as a tweeter in two-way speaker systems. Complete kit consists of the efficient MR-10 treble driver, CR-10 crossover network with level control, mounting hardware and instructions. Perfect for addition to speakers described above. Ideally suited for installation in "Aristocrat" and "Marquis" speaker systems and enclosures listed elsewhere in this section. Provides remarkably smooth frequency response from 1000 cps to 15,000 cps. Spreads mid-range evenly throughout the listening area. Power handling capacity, 50 watts of program material. Provides wide-angle dispersion, 180°. Impedance, 8 ohms. Horn size, 4" long by 10½" wide. Crossover size, 3¼x3x2¼". 5 lbs.

82 DX 852, No Money Down. NET.....24.50

### MODEL HF-1 HIGH-FREQUENCY TWEETER KIT

Quality high-frequency components at moderate cost. Complete kit consists of the Model TW-35 wide-angle, horn-type tweeter, Model CR-35 3500-cycle crossover network with level control, wiring, mounting hardware and easy-to-follow instructions. Perfect for use in 2-way or 3-way speaker systems. Delivers outstanding results with other "Wolverine" speaker components—can be added to any 8", 12" or 15" "Wolverine" speaker to afford crystal-clear high-frequency performance beyond the audible spectrum; provides crisp treble response from 3500-18,000 cps. Cutouts in "Aristocrat" and "Marquis" speaker enclosures make installation easy. Capacity, 50 watts (100 watts peak). Voice coil dispersion, 180°. Imp., 8 ohms. Size, 5¼x2x2¼". Crossover, 3¼x3x2¼". Wt. 3 lbs.

82 D 853, No Money Down. NET.....19.60



## MID-RANGE AND HIGH-FREQUENCY COMPONENTS PACKAGES

| Stock No. | Type | Description of Components                                                                                                                                                        | Lbs. | NET    |
|-----------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|
| 81 D 835  | BB1  | For 2-way systems (woofer with treble driver), and full-range speakers having 1-2 lb. magnets. Includes T35B VHF driver, X36 crossover, AT37 level control, wiring harness.      | 5    | 36.26  |
| 81 D 858  | BB2  | For 2-way systems (woofer with treble driver), and coaxial speakers having 3-lb. magnets or greater. Includes T35 VHF driver, X36 crossover, AT37 level control, wiring harness. | 5    | 49.00  |
| 81 DX 834 | BB3  | For existing woofers or coaxial speakers having 1-2 lb. magnets. Includes T10A driver, 8HD horn, X825 crossover, AT37 level control, wiring harness.                             | 11   | 84.28  |
| 81 DU 859 | BB4  | For existing woofers or coaxial speakers having 3-lb. magnets or greater. Includes T25A driver, 8HD horn, X8 crossover, AT37 level control, wiring harness.                      | 16   | 111.72 |



# Hi-Fi Speakers and Components

## by *ElectroVoice*



### TRX 3-Way High-Fidelity Speakers

- Wide-Range Response
- Triaxial Construction

ONLY  
**\$64.68**

MODEL 12TRXB 12" SPEAKER. Moderately-priced, high-quality 3-way speaker for the critical music listener. Triaxially-oriented components for ideal sound dispersion—woofer has 1 1/4-lb. ceramic magnet; Radax-type mid-range propagator cone; and T35B tweeter. 35-15,000 cps frequency response covers entire audio range. Built-in crossovers. Includes brilliance control for matching to room acoustics. Capacity, 20 watts (peaks, 40 watts). Impedance, 16 ohms. Depth, 6 1/4". Shpg. wt., 14 lbs.

81 DX 239. No Money Down. NET 64.68

MODEL 12TRX 12" SPEAKER. Deluxe version of above. Frequency response, 30-18,000 cps. 16 ohms. 25 watts (peaks, 50 watts). Magnet, 3 1/2 lbs. 27 lbs.

81 DU 236. No Money Down. NET 122.50

- Double-Flux Ceramic Magnet
- Excellent for Stereo Systems

ONLY  
**\$77.42**

MODEL 15TRXB 15" SPEAKER. An excellent 3-way speaker ideal for use in pairs in stereo systems—outstanding performance, moderate price. Features triaxial arrangement of 15" woofer, Radax-type "Whizzer" mid-range element, and T35B "Super Sonax" VHF tweeter. Woofer driven by 1 1/4 lb. ceramic magnet (100,000 maxwells flux). Frequency response of 35-18,000 cps gives impressive sound. Free cone resonance, 38-48 cps. Built-in crossovers. Includes brilliance control. Capacity, 20 watts. Imp., 16 ohms. 7 3/4" deep. Shpg. wt., 14 lbs.

81 DX 761. No Money Down. NET 77.42

MODEL 15TRX 15" SPEAKER. Deluxe version of above. Response, 30-19,000 cps. 9 1/4" deep. Imp., 16 ohms. Capacity, 50 watts. Shpg. wt., 33 lbs.

81 DU 235. No Money Down. NET 146.02

12TRXB

15TRX  
15TRXB  
12TRX

### Radax Coaxial High-Fidelity Speakers

MODEL SP15 15" SPEAKER. Top performing coaxial 15" speaker for high-quality music systems. Deluxe features include extended-bass woofer cone, 4 3/4 lb. ceramic magnet, and the exclusive Radax-type "Whizzer" HF radiator. Low free-cone resonance thru special treatment of the woofer cone suspension delivers remarkably clean bass response. Coaxial arrangements of components delivers uniform dispersion of sound; has built-in crossover. Brilliance control for optimum acoustics. Response, 30-13,000 cps.  $\pm 5$  db. Imp., 16 ohms. Capacity, 20 watts. Depth, 9". Wt., 29 lbs.

81 DU 280. No Money Down. NET 87.22

MODEL SP12 12" SPEAKER. High-performance 12" version of Model SP15 above. Response, 35-13,000 cps.  $\pm 5$  db. Capacity, 25 watts. 16 ohms. 7 3/4" deep. Less brilliance control. Shpg. wt., 23 lbs.

81 DU 279. No Money Down. NET 64.68

MODEL SP12B 12" SPEAKER. Moderately-priced, full-range 12" coaxial speaker with 1 1/2 lb. ceramic magnet. Has wide-range response: 40-13,000 cps.  $\pm 5$  db. Radax construction with "Whizzer" HF radiator. Resonance 40-50 cps. Built-in cross-over, 20 watts program capacity. Impedance, 16 ohms. Depth, 6". Shpg. wt., 12 lbs.

81 DX 278. No Money Down. NET 34.30

MODEL SP15B 15" SPEAKER. Highly popular 15" extended-range version of Model SP12B above. Response, 35-13,000 cps. Capacity, 30 watts. Impedance, 16 ohms. Depth, 7 3/4". Less brilliance control. Wt., 15 lbs.

81 DX 760. No Money Down. NET 42.14

MODEL SP8B 8" SPEAKER. Low-cost, smaller version of above speakers for limited-space applications. Response, 45-13,000 cps. Power handling capacity, 20 watts. Impedance, 16 ohms. Depth, 4 3/4". Wt., 9 lbs.

81 DU 277. NET 28.91

SP15  
SP15B  
SP12

SP8B

SP12B

### High-Frequency Tweeters for Extended Highs

T35 "SUPER SONAX". Clean response, 3500-19,000 cps. 180° dispersion horn; cutoff, 1500 cps. Use with X36 crossover and AT37 or AT37B (below). For amplifiers of 20 watts or over. 1/2-lb. magnet, 16 ohms. Horn, 15x4x2". Overall depth, 3 1/4". 3 lbs.

81 D 434. No Money Down. NET 34.30

T35B. As above, but for under 20 watts. Use X36 crossover and AT-37 or AT-37B (below). Depth, 3". Wt., 3 lbs.

81 D 432. No Money Down. NET 21.56

MODEL T350. Exceptionally fine tweeter ideal for deluxe multiway speaker systems. Employs diffraction horn principle with special Avedon Sonophase throat design for 180° dispersion pattern. Capacity, 50 watts; handles 100-watt peaks. Impedance, 16 ohms. Frequency response,  $\pm 8$  db. 2000-35,000 cps. Magnet weight, 1 lb. Recommended crossover, 3500 cps. Horn is 7 1/2x 2 7/8" wide. Pot diam., 3 1/2". Depth, 4 1/2". Shpg. wt., 8 lbs.

82 DX 337. No Money Down. NET 58.80

T35  
T35B

T350

### Mid-Range Horn, Drivers, Crossover Networks

MODEL T10A MID-FREQUENCY DRIVER. Provides clean response from 800-3800 cps,  $\pm 4$  db. Use 8HD horn and X8 crossover. 20 watts. 16 ohms. 3 3/4x5 1/2". 4 lbs.

81 D 424. No Money Down. NET 41.65

MODEL T25A MID-FREQUENCY DRIVER. For deluxe systems. Response, 700-3800 cps.  $\pm 2 1/2$  db. Use 8HD horn and X8 crossover. 30 watts. 16 ohms. 3 3/4x4 1/4". 7 lbs.

81 D 288. No Money Down. NET 56.84

MODEL 8HD DEFLECTION HORN. For use with above drivers. Precision die-cast construction. 15x4 1/2x8 1/4". Shpg. wt., 4 lbs.

81 D 429. No Money Down. NET 17.64

MODEL AT37 LEVEL CONTROL. Essential for controlling balance between tweeter and woofer. Allows matching gain of components or adjustment of brilliance to match room acoustics and personal taste. 16 ohms. Mahogany finish. Shpg. wt., 6 oz.

81 D 437. NET 3.82

MODEL AT37B LEVEL CONTROL. Same as Model AT37 above, but blonde finish.

81 D 838. NET 3.82

#### CROSSOVER NETWORKS

| Stock No. | Type | Crossover | Lbs. | EACH  |
|-----------|------|-----------|------|-------|
| 81 D 293  | X-8  | 800       | 6    | 31.34 |
| 81 D 436  | X-36 | 3500      | 3    | 9.31  |



T10A  
T25A



8HD



AT37  
AT37B



Crossover Network

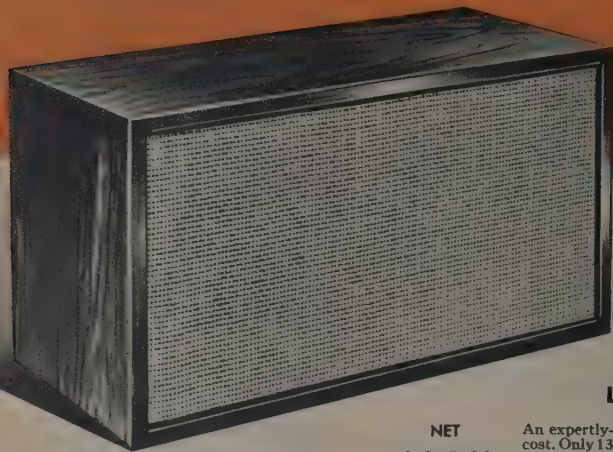
Choose Your Own Music System With E-V Components—Write For A Price Quotation



# Low-Resonance Sealed Speaker Systems

COMPACT . . . VERSATILE

by **Electro-Voice**



Space-sparing, wide-range speaker systems for placement along a wall, in a corner or on a bookshelf. Each is a blending of tasteful styling and outstanding audio design. All require amplifiers rated at least 12 watts per channel.



## LEYTON 2-WAY HI-FI SPEAKER SYSTEM

NET

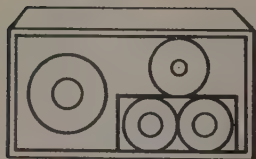
**\$82.81**

**NO MONEY DOWN**

An expertly-designed, space-sparing 2-way speaker system at moderate cost. Only 13 1/4" high, 24 3/4" wide and 12" deep—perfect for mounting on a bookshelf, record shelf or in a room divider. Complete system includes a 10" woofer and 5" high-frequency driver with level control wired and ready to use, in a sealed, airtight speaker enclosure. Beautifully finished on all four sides by master furniture craftsmen, the Leyton can be used in either lowboy or highboy applications—it's ideally suited for use in pairs in limited-space home stereo music systems. Enclosure features rigid, vibration-free, 3/4" plywood construction. Attractive contemporary styling fits well in any decorative scheme.

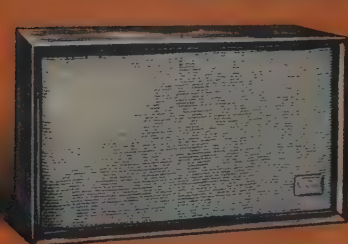
Employs special "air cushion" principle to provide distortion-free, low resonant bass reproduction. Delivers smooth, wide-range response from 50-16,000 cps. System has power handling capacity of 20 watts; capable of handling peaks of up to 50 watts. Requires the use of an amplifier rated minimum of 12 watts per channel. Impedance, 8 ohms. Finished in genuine furniture veneers—available in choice of mahogany or oiled walnut—specify choice of finish when ordering. Attractive, acoustically transparent, fine-fabric grille cloth. Shpg. wt., 29 lbs.

70 DU 265C. Specify Finish. No Money Down. NET..... **82.81**

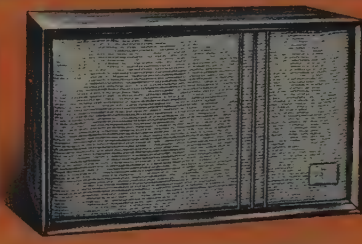


Includes 10" woofer and 5" high-frequency driver in sealed cabinet.

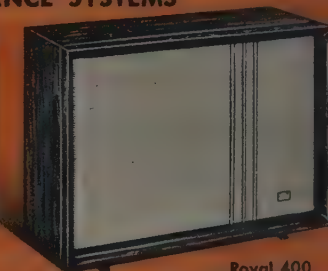
## OTHER SKILLFULLY DESIGNED LOW-RESONANCE SYSTEMS



Esquire 200



Regal 300



Royal 400

### "ESQUIRE 200" 3-WAY SYSTEM

Achieves extended bass response and dynamic range without sacrificing efficiency. Components employed include: 10" woofer with 1 1/2-lb. ceramic magnet; 5" mid-range cone speaker; very high frequency tweeter; plus 2-section crossover network with two level controls. 5" mid-range speaker is tailored to afford maximum dispersion and smoothest response—has shallow design. First crossover point is at 800 cps to the 5" unit; above 3500 cps, the very high frequency, compression-diffraction driver is employed. Response flat from 40-18,000 cps. 50 watts; 8 ohms. 14x25x13 1/2". In mahogany, or oiled walnut. 50 lbs.

70 DU 267C. Specify Finish. NET **130.34**

70 DZ 609. As Above, but Unfinished Kit

Form. Shpg. wt., 50 lbs. NET..... **91.14**

### "REGAL 300" 3-WAY SYSTEM

Deluxe system in elegant, sealed enclosure. Features a 12" woofer with a 4.6-lb. ceramic magnet and long-throw voice coil; 8" cone-type mid-range speaker in a totally isolated chamber; compression-type very-high frequency diffraction horn; and two L-C type crossover networks with level controls. Extra-low electrical crossover at 200 cps—very-high frequency driver takes over at 3500 cps. Response is flat from 35-18,000 cps. Power handling capacity, 70 watts. Impedance, 8 ohms. Size, 14" high, 25" wide and 13 1/2" deep. Available in mahogany, or oiled walnut. Shpg. wt., 64 lbs.

79 DU 336C. Specify Finish. NET **175.42**

70 DZ 610. As Above, but Unfinished Kit

Form. Shpg. wt., 64 lbs. NET..... **122.50**

### "ROYAL 400" 3-WAY SYSTEM

One of the finest systems available. Has 18" woofer that provides exceptionally smooth, rich bass response; 8" mid-range speaker in totally isolated chamber to prevent distortion; long-throw voice coils that insure linear operation at the highest levels of sound. Diffraction-compression VHF tweeter. Response, 30-18,000 cps. Capacity, 70 watts. Impedance, 8 ohms. Size, 23 1/2x32x14 1/4". Available in choice of mahogany, or oiled walnut. Shpg. wt., 103 lbs.

70 DZ 266C. Specify Finish. NET **244.51**

UNFINISHED "UTILITY" ROYAL 400 SPEAKER SYSTEM. As above, but unfinished fir. May be painted or finished to suit any mode—ideal for custom installations.

70 DZ 616. NET..... **195.02**



# Popular Marquis and Aristocrat Enclosures



IN KIT OR ASSEMBLED FORM . . . by **Electro-Voice**

## You'll Enjoy The Ease of Assembly

Enjoy the satisfaction of personal accomplishment and at the same time pocket substantial savings by assembling your own speaker system. Easy-to-follow, illustrated instructions make assembly so easy that even the inexperienced will enjoy building these quality kits. The unfinished kit has been smoothly sanded—it's ready for fast finishing to match your home's decorative motif.



### 2 "MARQUIS" ENCLOSURE KITS WITH LT-12 SPEAKERS

All 4 Units

**\$119.95**

NO MONEY DOWN

Save two ways on this attractive, fine-sounding pair of speaker systems. First—pocket big savings by building the enclosures yourself. Second—by purchasing the entire package you save \$8.43 off the cost of the individual components purchased separately. System consists of two LT-12 three-way speakers, with an unfinished "Marquis" enclosure for each. LT-12 delivers smooth response from 40-18,000 cps. Sonophase VHF driver captures the highest audible frequencies; Radax coaxial cone provides full bass response and outstanding clarity in the mid-range frequencies. The superbly crafted "Marquis" enclosure employs proven, popular bass reflex, folded-horn design for rich, authentic frequency reproduction without need for corner placement. Power handling capacity, 20 watts program material. Impedance, 8 ohms. Size of each enclosure, 29½" x 19" x 14½". Less grilles. Shpg. wt., 130 lbs.

20 DZ 222-4, 2 Marquis Kits and 2 LT-12's. No Money Down. NET. . . . . **119.95**

81 DX 799, Optional AK6 Metal Grilles For Above. 3 lbs. EACH. . . . . **4.70**

70 DU 268, Unfinished Marquis Enclosure Kit. Shpg. wt., 50 lbs. NET EACH. . . . . **35.28**

**FACTORY-ASSEMBLED MARQUIS ENCLOSURE.** Accommodates 12 and 15" speakers or two or three-way speaker systems. Complete with brass grille. Shpg. wt., 50 lbs.

79 DZ 310, Mahogany. No Money Down. NET. . . . . **61.74**

79 DZ 312, Oiled Walnut. No Money Down. NET. . . . . **67.62**



### 2 MARQUIS ENCLOSURE KITS WITH LS-12 SPEAKERS

All 4 Units

**\$99.95**

NO MONEY DOWN

Same as 4-unit set above, but with famous LS-12 speakers in place of LT-12's. You save \$8.83 off the cost of individual components purchased separately; you save even more by building the enclosures yourself. LS-12 "Wolverine" 12" speaker delivers excellent response from 40-13,000 cps. Radax construction, rugged die-cast frame and edgewise-wound voice coil. Capacity, 40 watts, 8 ohms. Less grilles. Shpg. wt., 115 lbs.

20 DZ 177-4, 2 Marquis Kits and 2 LS-12's. NET. . . . . **99.95**

**SAVE!**  
... by building enclosures yourself  
... by buying complete package

LT-12

## FAMOUS "ARISTOCRAT" HIGH FIDELITY SPEAKER ENCLOSURE

### KD-6 ARISTOCRAT IN KIT FORM

NET

**\$38.22**

NO MONEY DOWN

- Complete with Cutouts for "Wolverine" Speaker Components
- Easy-to-Follow Illustrated Instructions
- Extends Bass Range by One Full Octave
- Also Available in Factory-Assembled Form



Ready-to-build folded horn corner enclosure kit. Utilizes walls of room as an extension to its built-in horn—extends bass range by one full octave for clean, clear reproduction of lowest notes without distortion. Large air-load holds cone excursion to a minimum for an increase in power handling capability up to 50%. This attractive enclosure has been designed for use with any 12" speaker (E-V 12" series is especially recommended); can also be used to make up two or 3-way speaker systems. Supplied with grille cloth and easy-to-follow instructions; less metal grille, see AK6, above. Size, 29½" high, 19" wide and 15¼" deep. Shpg. wt., 44 lbs.

81 DU 788, No Money Down. NET. . . . . **38.22**

**FACTORY-ASSEMBLED ARISTOCRAT ENCLOSURE.** As above, but in factory-assembled form. Available in choice of two beautiful, expertly hand-rubbed furniture finishes—mahogany or oiled walnut. Enclosure is supplied complete with attractive brushed brass grille. Shpg. wt., 44 lbs.

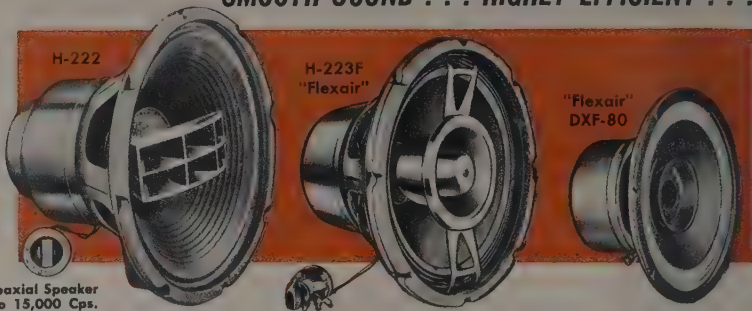
81 DZ 295, Mahogany. No Money Down. NET. . . . . **70.56**

81 DZ 862, Oiled Walnut. No Money Down. NET. . . . . **77.42**

For A Selection of Furniture Finishing Kits, See Page 27

SMOOTH SOUND . . . HIGHLY EFFICIENT . . .

Famous Jensen "Flexair" speakers are designed for smooth reproduction throughout the entire audible range. Special damping action assures super-low resonances for clean, boom-free bass in any type of enclosure.



Wide-Range 12" Coaxial Speaker  
—Reproduces 30 to 15,000 Cps.

## Model H-222 12" Coaxial Speaker

NET  
**\$62.50**

No Money Down

A highly popular 12" coaxial speaker offering outstanding quality at moderate cost. Delivers clean, wide-range response for an exceptional standard of high-fidelity reproduction. Features a compression-driver tweeter. Driver unit is loaded by a 6-cell Hypex horn; insuring extremely high efficiency, unusual tonal purity, and wide-angle dispersion of "highs." Overall frequency response extends from 2000 to 15,000 cps. Model ST-946 level control is included—permits adjusting "brilliance" of high frequencies to match room acoustics. Special, two-channel crossover assures proper distribution of bass and treble frequencies above and below the 2000-cps crossover point. Crossover network is built-in—does not require additional mounting space inside the speaker enclosure.

12" woofer cone covers 30 to 2000 cps. 1 1/4-lb. high-energy, DP-Alnico magnet reproduces the dynamic range of the most powerful percussive passages with superb clarity and realism. Capacity, 25 watts. Impedance, 16 ohms. Shpg. wt., 12 lbs.

82 DX 068, No Money Down, NET.....62.50

## Model H-223F 12" Coaxial Speaker

A top-quality, 2-way coaxial type speaker, capable of outstanding reproduction in a wide variety of enclosures. Combines the quality of the 2-way speaker plus the exceptional performance of Jensen's "Flexair" woofer for low-frequency response (all the way down to 20 cycles when used in the BF-100 enclosure). Built-in, efficient L-C type crossover network at 2000 cps—plus a reflexed compression driver tweeter. Extends audio range out to 15,000 cps. Power handling capacity, 30 watts. Impedance, 16 ohms. Requires baffle opening of 10 1/4" depth of 7 1/4" behind baffle. With wired-in balance control for tweeter. Shpg. wt., 13 lbs.

79 DX 128, No Money Down, NET.....72.50

## Model DXF-80 Full-Range 8" Speaker

Full-range speaker employing 8" "Flexair" woofer for super-clean bass response. Ideal for smaller enclosures. Provides low-distortion bass reproduction down to 36 cycles! Concentrically mounted whizzer-cone element extends response to 13,000 cps. 3/4 lb. Alnico V magnet. Capacity, 20 watts. Imp. 16 ohms. Wt., 5 1/2 lbs.

70 D 257, No Money Down, NET.....24.50

## Duax and Unax Speakers

MODEL DX-120 DUAX 2-ELEMENT 12" SPEAKER. Better sound at lower cost—with this budget-priced speaker featuring two carefully coordinated cones, driven by the same voice coil. Both cones operate together up to a "mechanical crossover" at 4000 cps; the smaller cone is effective above 4000 cps. Resonance, 48-50 cps. Frequency response, 40 to 13,000 cps. Power handling capacity, 20 watts. Impedance, 16 ohms. Depth, 7 3/4". Shpg. wt., 8 lbs.

82 DX 355, NET.....27.50

MODEL UX-120 UNAX 12" SPEAKER. Extended-range single-cone type. Response, 40 to 12,000 cps. Capacity, 14 watts. Imp., 8 ohms. Shpg. wt., 6 lbs.

82 DX 358, NET.....17.95

MODEL UX-80 UNAX 8" SPEAKER. Extended-range single-cone speaker. Response, 50 to 12,000 cps. Capacity, 12 watts. Imp., 8 ohms. Shpg. wt., 4 1/2 lbs.

82 D 357, NET.....14.50

## Coaxial Speakers

MODEL K-210 12" COAXIAL SPEAKER. Economy-priced, 12" coax speaker. Ideal for use as a replacement unit in TV sets and radio consoles employing older, single-cone 12" speakers. Features direct-radiator tweeter unit and built-in electrical crossover network. Frequency response, 45 to 14,000 cps. Power capacity, 14 watts. Impedance, 8 ohms. Shpg. wt., 7 lbs.

82 DX 062, NET.....27.50

MODEL K-80A 8" COAXIAL SPEAKER. New, low-cost coax speaker featuring electrically and acoustically independent woofer and tweeter units. Perfect for use wherever a small hi-fi speaker with excellent performance is needed. Electrical crossover from woofer cone at 3000 cycles, to high-frequency tweeter element. Frequency response, 50 to 14,000 cps. Power handling capacity, 12 watts. Magnet wt., 1/2 lb. Impedance, 16 ohms. Shpg. wt., 5 lbs.

70 D 540, NET.....17.75

## Model G-610B 15" Triaxial

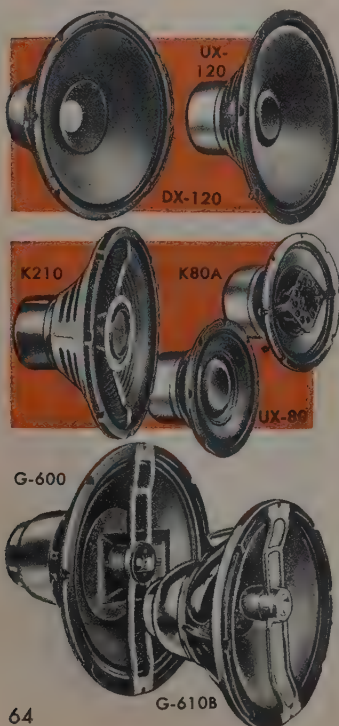
A superb 3-way high-fidelity speaker. Has three elements, electrically and acoustically independent, built into a single unit, each designed for peak performance in its portion of the audio spectrum. Response, 25 cps to beyond audible range. Employs heavy woofer and two compression-driver horn-loaded elements for mid-frequency and high-frequency channels. Includes built-in dual crossover network with wired balance controls for easy adjustment to room acoustics. Crossovers at 600 and 4000 cps. Capacity, 40 watts. Impedance, 16 ohms. Magnet weight, 6 1/4 lbs. Depth, 10 1/4". Shpg. wt., 46 lbs. No Money Down.

70 D 228, NET.....252.75

## Model G-600 15" Triaxial

Embodying the same operating principles as the G-610B triaxial speaker, at left, the G-600 is a low-cost version with somewhat lighter construction. Highly efficient woofer employs a 3 1/2 lb. magnet. Frequency response, 30 cps to beyond audible range. Bore-mounted compression driver for mid-frequencies, has separate horn for 900-4000 cps range. Super-tweeter handles the range from 4000 cps through the upper limits of audibility. Complete with built-in dual crossover network with wired balance controls. Power capacity is rated at 35 watts. Impedance, 16 ohms. Depth, 11 1/4". Shpg. wt., 33 lbs. No Money Down.

82 DU 350, NET.....134.50



See Our Full Line of Acoustically-Correct Speaker Enclosures



## Featuring Renowned Flexair Design

ADVANCED ACOUSTICS . . . . TASTEFUL DECOR

### Model CN-100 Speaker System

NET **\$159.50**  
NO MONEY DOWN

- Smooth Hi-Fi Response from 20-15,000 cps
- Special "Flexair" Woofer Delivers Rich Bass
- Attractive "Flair Line" Styling Fits Any Decor

Elegantly-styled, three-way speaker system for use in deluxe stereo and mono-  
phonic music systems. A product of strikingly beautiful contemporary Scan-  
dinavian styling, the CN-100 delivers brilliant high-fidelity response from  
20-15,000 cps. Components employed in this quality system are: "Flexair" 12"  
woofer. P8-UM 8" mid-range unit, RP-103B compression-type tweeter, ST-946  
balance control and A-645 crossover network—installed in the BF-100 "Flair  
Line" speaker enclosure. Power capacity, 30 watts. Cabinet is available in  
choice of three tasteful finishes. Available in mahogany, tawny ash or walnut  
natural wood veneers. Size, 31½x21x18¼". Impedance, 16 ohms. Shpg. wt.,  
71 lbs. No Money Down.

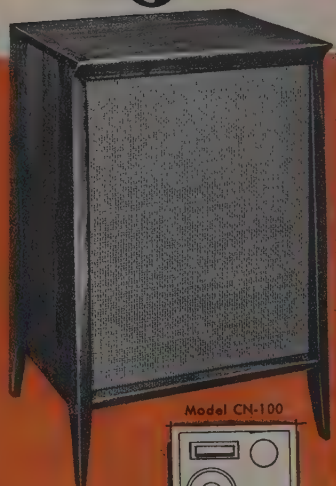
70 DZ 261 C. Specify Finish. NET. . . . .159.50

MODEL BF-100 SPEAKER ENCLOSURE. Identical to the enclosure of the CN-100  
speaker system, above. Incorporates Bass-Superflex design with tube-loaded  
port for extended low-frequency response. May be used with any 12" speaker or  
speaker system. Outstanding contemporary Scandinavian styling goes well with  
any decorative scheme. Available in three attractive quality-crafted natural  
wood veneers—mahogany, tawny ash or walnut finish. Shpg. wt., 55 lbs.  
70 DZ 262. No Money Down. Specify Finish. NET. . . . .79.50

### KT-33 SPEAKER COMPONENTS KIT

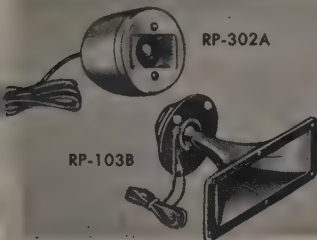
This complete speaker system is ready for installation in the cabinet you choose.  
Included in package is the C12-NF 12" woofer that provides full, rich bass  
response down to 30 cycles; P8-UM 8" direct radiator mid-range unit for  
smoothness and presence in 600-4000 cycle range; RP-103B compression-driver  
horn-loaded tweeter that produces clear, silvery highs to 15,000 cps; A-645 two  
channel-type crossover network; plus ST-946 balance control for adjusting  
volume level of tweeter. Power capacity, 30 watts. Frequency response, 30-  
15,000 cps. Impedance, 16 ohms. Shpg. wt., 20 lbs.

70 DU 542. No Money Down. NET. . . . .80.00



Model CN-100

Outstanding 3-way system  
includes 12" woofer, 8" mid-  
range unit, compression-  
type tweeter, balance control  
and crossover.



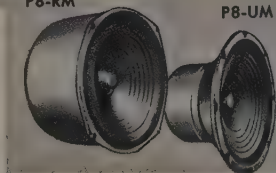
RP-302A

RP-103B

## Jensen Speaker Components

P8-RM

P8-UM



Feature Patented  
"Flexair" Principle

C12-NF  
P15-LF  
P8-QF



### TWEETERS

MODEL RP-103B COMPRESSION TWEETER. For use with 2000 and 4000 cycle crossover networks. 2000 to 15,000 cps. 30 watts. 16 ohms. Die-cast horn flanged for panel mtg.; cutout 2x6", 3x7½x6¼". 3 lbs.

79 D 144. NET. . . . .16.50

MODEL RP-302A SUPER TWEETER. Compression-driver, horn-loaded tweeter for the frequency range above 4000 cps to inaudibility. Capacity (with suitable crossover network) 40 watts. Imp., 16 ohms. O.D. 2¾", 3¾" long. With mtg. plate. Wt., 2½ lbs.

79 D 135. NET. . . . .35.00

### CROSSOVER NETWORKS

MODEL A-61. A quality network of the two-channel, 600-cycle type. Capacity, 40 watts. Imp., 16 ohms. 5¼x6¾x4¼". 6 lbs.

82 D 373. NET. . . . .19.75

MODEL A-204. Similar to Model A-61 but two-channel, 2000-cycle type. 180° constant-resistance type. Impedance, 16 ohms. 4¼x3½x3¼". Shpg. wt., 2½ lbs.

82 D 374. NET. . . . .13.00

MODEL A-402. Two-channel type similar to Model A-204 above, but crossover point is 4000 cps. Shpg. wt., 2½ lbs.

82 D 375. NET. . . . .10.90

### MID-RANGE

MODEL P8-UM 8" MID-RANGE SPEAKER. A low-cost, 8" direct-radiator, mid-range speaker. For reproducing the 600 to 4000 cps range. Closed housing for isolation. 30 watts. Depth, 4½". 16 ohms, 3 lbs.

79 D 131. NET. . . . .7.50

MODEL P8-RM 8" MID-RANGE SPEAKER. Direct-radiator, mid-range speaker for uniform output in the 200 to 4000 cps range. Employs closed housing for isolation. Capacity, 40 watts. Depth, 5". Impedance, 16 ohms. Shpg. wt., 4 lbs.

79 D 132. NET. . . . .12.50

### BALANCE CONTROLS

CHOICE OF TWO. Have adjustable, wire-wound L-pads, with bar knob and metal escutcheon plate. Mount in 1½" hole. 36" leads. Impedance, 16 ohms. 12 oz.

MODEL ST-947. For tweeter or mid-frequency unit level adjustment in 2, 3 and 4-way high fidelity speaker systems rated up to 40 watts power handling capacity.

79 D 137. NET. . . . .4.50

MODEL ST-946. For adjusting output of tweeter in 2 and 3-way systems with power rating up to 30 watts.

79 D 136. NET. . . . .3.95

### WOOFERS

MODEL C12-NF 12" WOOFER. 20-2000 cps. Resonance, 20 cps. 30 watts. 16 ohms. 1¼-lb. ceramic magnet. Wt., 10 lbs.

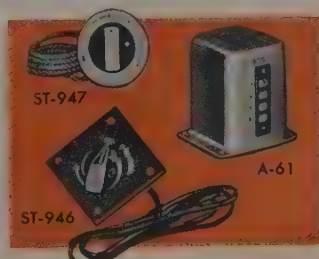
70 DX 541. NET. . . . .37.50

MODEL P15-LF 15" WOOFER. 16-2000 cps. Resonance, 16 cps. 40 watts. 16 ohms. 3½-lb. magnet. Shpg. wt., 18 lbs.

79 DX 129. NET. . . . .69.75

MODEL P8-QF 8" WOOFER. 36-2000 cps. Resonance, 45 cps. 25 watts. 16 ohms. ¾-lb. magnet. Shpg. wt., 5½ lbs.

70 D 258. NET. . . . .22.50

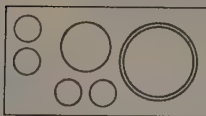


ST-947

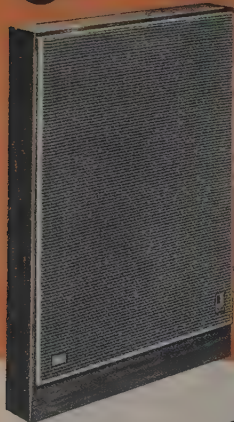
A-61

ST-946

Choose Your Own Music System Featuring Jensen Speakers—Write For Price



Each of the speaker systems on this page incorporate the new Jensen 3-P 5-speaker, 4-way component package. Speaker components are designed to match the enclosure for smoothly-blended sound covering entire audio range.



## 3-P THIN LINE SYSTEMS

3-P Speaker systems are available in a wide choice of decorator-styled enclosures that feature fine woods, skillfully crafted in distinguished designs. Choose from standard, shelf size units or from space-saving, slim shelf and panel versions.

### Model 3-P/2 Speaker System

### Model 3-P/1 Speaker System

NET  
**\$139.50**

New panel speaker system combines enclosure slimness with full-dimension performance. Measures only 3 3/4" in depth! Can be hung unobtrusively on the wall, or used as a floor speaker. Opens many exciting new modern decor applications. Five-speaker design provides excellent response from 25 cycles to beyond audibility. Features new 10-inch 3-P/W1 woofer with "Polytec" plane piston radiator for more effective sound radiation and extended low-frequency response. Also has M-80 midrange, two improved TW-40 tweeters, and the new E-10 "Sono-Dome Ultra-Tweeter." M-1473 crossover network and high-frequency speaker balance control allows you to adjust highs to your personal listening taste. Skillfully crafted, selected walnut veneer cabinet has hand-rubbed oiled finish with modern, attractive ratan grille and oak trim strips. Power handling capacity, 25 watts. Impedance, 8 ohms. Size, 28 1/2"x21 1/4"x3 3/4". Shpg. wt., 37 lbs.

70 DU 789. No Money Down. NET.....139.50

NET  
**\$119.50**

NO MONEY DOWN

New look for the popular shelf speaker system. Trim, modern styling greatly enhances eye appeal and simplifies placement. Use on a shelf, on the floor, or hang on the wall—provides many decorator possibilities. Unobtrusive yet decorative, easily blends with any room furnishings. Perfect for use in pairs as stereo speakers. Only 5 1/2" deep, yet provides rich, full-dimensional performance. Five-speaker design features the new 10-inch 3-P/W1 woofer with "Polytec" radiators for extended low-frequency response to 25 cycles, M-80 midrange for response from 600 to 4000 cycles, two TW-40 tweeters and E-10 "Ultra-Tweeter" for brilliant highs that extend beyond audibility. M-1473 crossover network and high-frequency speaker balance control lets you adjust highs to suit your own personal listening tastes and room acoustics. Selected walnut veneer case has oiled finish with modern, attractively styled rattan grille and oak trim strips. Handles 25 watts, yet provides adequate listening level at lower power levels. Impedance, 8 ohms. Measures only 13 1/4"x25x5 1/2". Shpg. wt., 33 lbs.

70 DU 790. No Money Down. NET.....119.50



## 3-P/3 DECORATOR SYSTEMS

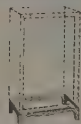
AVAILABLE IN 3 STYLES



Provincial



Danish



Traditional

CONSOLETTES BASES  
Convert 3-P/3 Systems  
to Floor Models

### 3-P/3 Speaker Systems

NET  
**\$159.50**

For superb sound and attractive appearance. Choose from three outstanding decorator finishes to complement and blend with your room decor. In your choice of Danish walnut, provincial cherry or traditional mahogany, the new 3-P/3 speaker systems offer elegance in furniture—fine woods, skillfully crafted in distinguished designs. Finished on all four sides, decorator speaker systems may be placed on a shelf, mantel, or any other horizontal surface, or on the floor with the matching console bases. New 5-speaker design delivers rich, full bass response to 20 cycles; highs extend to beyond audible range. Rated 25 watts power handling capacity, may be used with any amplifier of 12 watts or more for adequate living room listening level. New 10-inch 3-P/W1 woofer features "Polytec" plane radiator for extended low and efficient sound radiation. Also use M-80 midrange, two TW-40 tweeters, and E-10 "Ultra-Tweeter." M-1473 crossover and high frequency control lets you adjust highs to your room acoustics. Size, 16 1/4"x25 1/2"x11 3/4". Impedance, 8 ohms. Available in your choice of walnut, cherry, or mahogany. Shpg. wt., 52 lbs.

70 DZ 791C. Specify Finish. NET.....159.50

### 3-P/3U UNFINISHED SPEAKER SYSTEM

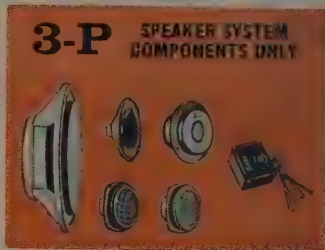
Not ill. Uses same 5-speaker design as above system, but comes in unfinished enclosure, smooth-sanded ready for finishing in the color of your choice. Size, 16 1/4"x25 1/2"x11 3/4". Shpg. wt., 52 lbs.

70 DZ 792. NET.....129.50

### 3-P/3 CONSOLETTES BASES

Matching wood bases for converting above systems to consolelets. Available in Danish walnut, provincial cherry, or traditional mahogany to match above furniture. Size, 10 1/2"x10 1/2"x3 3/4". Shpg. wt., 2 lbs.

70 DX 793C. Specify Finish. NET.....9.95



## 3-P SPEAKER SYSTEM COMPONENTS ONLY

### 3-P/K Speaker Component Kit

NET  
**\$97.50**

NO MONEY DOWN

Design your own custom cabinetry around this integrated 5-speaker kit. "Polytec" polystyrene foam radiator elements provide rigidity and lightness. Super-shallow woofer—only 2 1/4" behind panel! Use in shelf or wall enclosures. Consists of: 3-P/W1 10" woofer with plane piston radiator for response to 20 cps, powerful magnet, die-cast frame; M-80 8" midrange for 600-4000 cps response; two TW-40 3 1/2" tweeters for highs to 10,000 cps; E-10 "Ultra-Tweeter" with dome radiator for clean response, 10,000 cps to beyond audibility; and M-1473 crossover with balance control. Snap-on leads. Includes vent-tube and instructions. Capacity, 25 watts. Imp., 8 ohms. Wt., 21 lbs.

70 DU 794. NET.....97.50

70 D 795. 3-P/W1 Woofer Only. 16 ohms. Cap., 25 watts. 9 1/2 lbs. NET.....39.75

70 D 796. TW-22 Tweeter Only. 16 ohms. Capacity 25 watts. 1 1/4 lbs. NET.....9.75



# SELECTED SPEAKER SYSTEMS from Jensen

## Model TR-10 Speaker System

AS LOW AS

**\$94.50**

Less Base

- Complete, Compact-Design, 3-Way System
- Handsomely Finished On Four Sides
- Award-Winning Danish-Modern Styling
- Bass Response Down to 25 cps
- Available With Accessory Bases

Renowned "Tri-ette" speaker system. Delivers remarkable performance. Compact dimensions simplify placement. 12" "Flexair" woofer extends bass response to 25 cps. 8" midrange delivers smoothness and clarity from 600 cps. Compression type tweeter reproduces 4000 to 15,000 cps with sparkling brilliance. Finished on four sides, the TR-10 performs equally well horizontally or vertically.

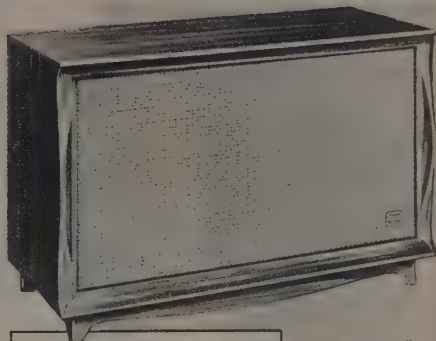
Unique "Flair Line" styling, the rich beauty of natural woods and skillfully crafted finishes make the TR-10 strikingly attractive on the shelf or floor by itself or with optional bases below. Components: "Flexair" woofer, P8-UM mid-range, RP-103A tweeter, ST-946 balance control and A-645 crossover. Capacity, 30 watts. 16 ohms. Size, 13 $\frac{1}{2}$ x25x11 $\frac{3}{4}$ ". In mahogany, tawny ash, or walnut (also available unfinished, below). Less base. Shpg. wt., 40 lbs. *No Money Down.*

79 DU 333C. *Specify Finish.* NET.....119.50

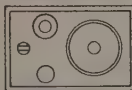
70 DU 231. Model TR-10-U. As above, but in unfinished hardwood. 40 lbs. *Unfinished bases and stands not available.* NET.....94.50

70 DX1260C. ST-945 Table Base. For above. In choice of mahogany, tawny ash, or walnut. *Specify Finish.* 2" high. 2 lbs. NET.....5.45

70 DX 788C. ST-944 Floor Stand. As above. 14 $\frac{1}{2}$ " high. 9 lbs. Choice of mahogany, tawny ash or walnut. *Specify Finish.* NET.....12.95



3-SPEAKER DESIGN



Consists of 12" woofer, 8" mid-range unit and compression-type tweeter.

## Model TF-2 Speaker System

AS LOW AS

**\$64.50**

NO MONEY DOWN

Control lets you adjust highs to your personal listening tastes. Rated 20 watts. 8 ohms. Size, 13 $\frac{1}{2}$ x23 $\frac{1}{4}$ x11 $\frac{3}{4}$ ". Wt., 36 lbs.

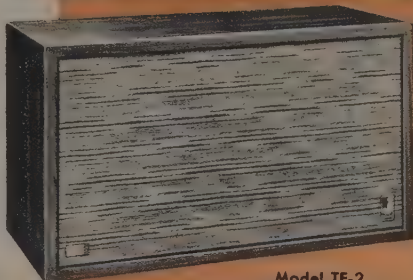
70 DU 573. *No Money Down.* NET.....79.50

MODEL TF-2U. As above, but of unfinished 3/4" gum hardwood. Can be wood finished, painted, or stained. Shpg. wt., 36 lbs.

70 DU 574. *No Money Down.* NET.....64.50

MODEL KTF-2. Speaker components used in above system. Less enclosure. Includes enclosure plans. Shpg. wt., 10 lbs.

70 DU 575. *No Money Down.* NET.....39.75



Model TF-2

## Model TF-3 Speaker System

AS LOW AS

**\$79.50**

NO MONEY DOWN

beyond audibility. With high freq. level control. Capacity, 25 watts. Imp., 8 ohms. Size, 13 $\frac{1}{2}$ x23 $\frac{1}{4}$ x11 $\frac{3}{4}$ ". 38 lbs.

70 DU 675. *No Money Down.* NET.....99.50

70 DU 635. Model TF-3U. As above, unfinished hardwood. NET.....79.50

TF-3 DECORATOR SYSTEM. Same construction and components as TF-3 above, but in handsomely crafted decorator cabinets. 38 lbs.

70 DU 797C. *Specify Cherry or Walnut Finish.* NET.....109.50



Decorator TF-3



Contemporary TF-3

## Model X-10 Ultra-Compact Speaker System

NET

**\$29.75**

NO MONEY DOWN

Amazing new, ultra-compact 2-way speaker system with the bass you'd expect from a much larger unit. Now you can economically and practically extend stereo to other rooms in the home—easily solves compact installation problems. The heart of the "X-10" is a special miniature woofer precisely matched to its diminutive enclosure. Mass-loading combined with unusually long cone travel provide improved bass response. 3" tweeter carries high frequency response to 14,000 cycles. Powerful 10-ounce "Syn-tor-6" magnet provides high efficiency. Rated 6 watts—provides adequate listening room sound with only 1-watt drive. For convenience in extension speaker applications, volume is adjustable by a knob on the front panel. Enclosure is finished in attractive, hand-rubbed, oiled walnut. Imp., 4 to 16 ohms. Size, 7 $\frac{1}{2}$ x13x4 $\frac{1}{4}$ ". Shpg. wt., 7 $\frac{1}{4}$  lbs.

70 DX 553. *No Money Down.* NET.....29.75

X-10



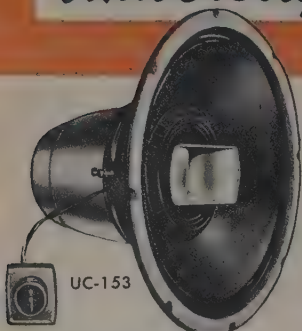
Allied is Headquarters for High-Fidelity Equipment

# University

# Style, Craftsmanship, Quality

## 100 SERIES

Presenting a moderately-priced series of high-fidelity speakers noted for fine-quality performance. Each is a product of advanced design, careful construction and rigid quality control.

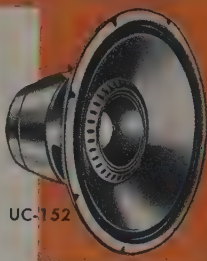


UC-153

### UC-153 15" 3-WAY SPEAKER

Medium-power version of the deluxe University 315-C (listed on facing page). Delivers superb high-fidelity performance throughout the range of audibility. Integrally constructed on a rugged frame, it features three separate reproducing elements—15" woofer cone for bass response, diffusicon element for mid-range, and super tweeter for smooth, clear highs. Mechanical crossover picks up mid-range at 1000 cps; at 5000 cps, an L-C electrical crossover network directs the high and ultra-high frequencies to the UXT-5 tweeter with reciprocating flare horn.

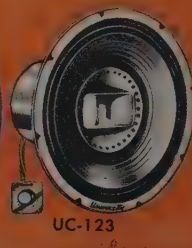
Tweeter is axially mounted in center of woofer to provide purest treble response and excellent dispersion. Unit comes supplied with brilliance control that allows you to match high frequencies to your room acoustics. Frequency response, 30-18,500 cps. Power handling capacity, 30 watts. Impedance adjustable at either 8 or 16 ohms. Depth, 10". Shpg. wt., 12 lbs.  
70 DU 511. No Money Down. NET 81.34



UC-152

### UC-152 2-WAY 15" SPEAKER

Moderately-priced unit. Diffusicon element assures wide angle dispersion of highs—dual horn loading extends mid and high-frequency response evenly throughout the listening area, crossing over mechanically at 1000 cps. Rich, clear bass without boominess is provided by the sturdily constructed 15" woofer with molded cone. Response, 30-14,000 cps. Capacity, 30 watts. Impedance, 8-16 ohms. Depth, 7 1/4". Wt., 8 1/2 lbs.  
70 DX 510. No Money Down. NET 44.10



UC-123

### UC-123 3-WAY 12" SPEAKER

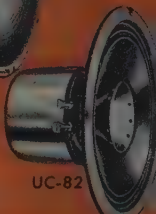
Employs a uni-sectional diffusicon element and UXT-5 reciprocating flare super-tweeter, mounted through the center axis of the woofer, to attain true, wide-angle dispersion. With built-in brilliance control and 3-ft. cable. Mechanical crossover at 1000 cps; electrical crossover at 5000 cps. Frequency response, 40-18,500 cps. Power handling capacity, 30 watts. Impedance, 8-16 ohms. Depth, 8 1/4". Shpg. wt., 9 lbs.  
70 DX 509. No Money Down. NET 65.17



UC-122

### UC-121 EXTENDED-RANGE 12" SPEAKER

Incorporates special, shallow design for flush mounting in ceilings, walls, etc. Frequency response, 40-10,000 cps. Power handling capacity, 30 watts. Impedance, 8-16 ohms. 5 1/4" depth. Wt., 5 1/4 lbs.  
70 DX 507. No Money Down. NET 27.44



UC-82

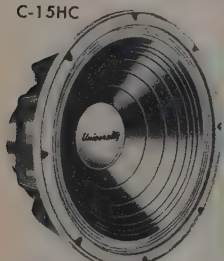
### UC-82 2-WAY 8" SPEAKER

Low-cost speaker for compact enclosures. 2-way diffaxial design and 5000 cps mechanical crossover for clear, true response. Response, 45-14,000 cps. Power handling capacity, 25 watts. Impedance, 8-16 ohms. Depth, 4 1/4". Shpg. wt., 3 1/2 lbs.  
70 D 535. NET 16.61

### UC-122 2-WAY 12" SPEAKER

Low-cost speaker employing uni-sectional diffusicon, high-frequency element with 1000 cps mechanical crossover. Provides uniform wide-angle dispersion. Frequency response, 40-13,000 cps. Power handling capacity, 30 watts. Impedance, 8-16 ohms. Depth, 4 1/4". Shpg. wt., 5 1/4 lbs.  
70 DX 508. No Money Down. NET 34.79

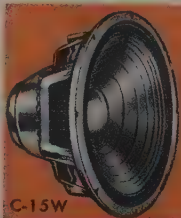
C-15HC



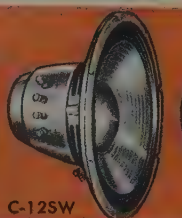
**MODEL C-15HC 15" WOOFER.** High-compliance, low-resonance woofer which yields tremendous bass depth. Delivers rich, remarkably clean reproduction throughout the lower frequency range. Features Hiflux Ultra-7 magnet material in specially designed twin-spider suspension assembly—assures positive transient control during maximum excursions. University dual-impedance voice coil design permits use of the C-15HC in any high-fidelity music system of either 4 to 8 ohms impedance, or 10 to 20 ohms impedance.

Recommended for use in high-fidelity music systems employing amplifiers which are capable of delivering output of 15 watts or more. Cone resonance, 15 cps. Response to 800 cps. Depth, 8 1/4". Because maximum fidelity depends on this loudspeaker being used in properly designed speaker enclosures, recommended enclosure plans are supplied with the C-15HC free of charge. Shpg. wt., 24 3/4 lbs.  
81 DU 812. No Money Down. NET 87.71

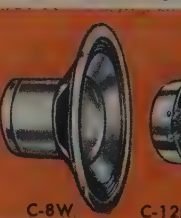
## Popular, Moderately-Priced High-Compliance Woofers



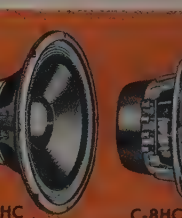
C-15W



C-12SW



C-8W



C-12HC



C-8HC

**MODEL C-15W 15" WOOFER.** Top-performing woofer featuring special-design dual voice coils—two electrically independent voice coils on a single woofer. Dual-spider piston and 6-lb. magnet assure clean response from below 25 to 1500 cps. Power handling capacity, 50 watts. Dual impedance voice coil assembly permits use in any high-fidelity music system of 4-20 ohms. Depth, 10 1/4". Shpg. wt., 27 lbs.  
95 DU 185. No Money Down. NET 83.30

**MODEL C-12SW 12" WOOFER.** Features built-in low pass filter for adjustment of response to 700, 2500 or 5000 cps. Response, 40-6000 cps. Capacity, 30 watts. 1 1/2-lb. magnet. Impedance, 8 ohms. Depth, 6 1/4". Shpg. wt., 7 1/4 lbs.  
79 DX 244. No Money Down. NET 38.71

**MODEL C-8W 8" WOOFER.** Budget-priced low or mid-range speaker. Response, 50-5000 cps. Impedance, 8 ohms. Depth, 4 1/4". Shpg. wt., 3 lbs.  
95 D 192. NET 14.70

**MODEL C-12HC 12" WOOFER.** High compliance, ultra-linear 12" woofer that delivers excellent bass response. Priced in the range of moderate-cost stereo and monophonic music systems. Recommended for use in hi-fi systems employing amplifiers which are capable of delivering output of 15 watts or more. Frequency response extends to 3000 cps. Cone resonance, 18 cps. Dual high-fidelity music system of 4 to 8 ohms or 10 to 20 ohms. Enclosure used is critical—plans are included free with the woofer. Depth, 6 1/4". Shpg. wt., 13 1/4 lbs.  
81 DX 811. No Money Down. NET 48.51

**MODEL C-8HC 8" WOOFER.** Same construction features as unit above. Designed to provide bass response from as low as 20 cps in the smallest enclosure. Frequency response extends to 3000 cps. Power handling capacity, 30 watts. Impedance, 4-8 ohms. Depth, 4 1/4". Complete with enclosure plans. Shpg. wt., 7 1/2 lbs.  
70 D 236. No Money Down. NET 39.15

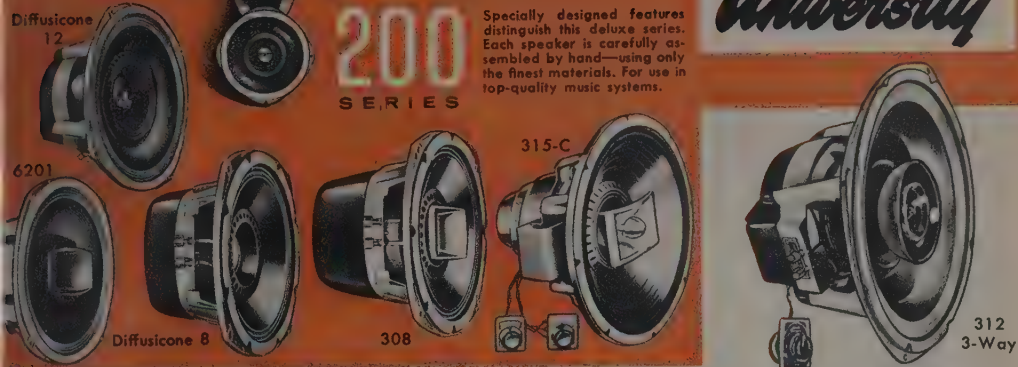


# Award Winning Series

## 200 SERIES

Specially designed features distinguish this deluxe series. Each speaker is carefully assembled by hand—using only the finest materials. For use in top-quality music systems.

# University



### DIFFUSICONE 8 2-WAY SPEAKER

8" Diffaxial speaker. Wide-angle dispersion is achieved by a dual-horn radial projector, plus aperture diffraction. Response, 30-15,000 cps. Capacity, 35 watts. Impedance, 8-16 ohms. Depth, 4 1/4". Wt., 4 lbs.  
70 D 504. No Money Down. NET 27.44

### 6201 12" COAXIAL SPEAKER

Smooth, natural sound. Has separate drivers for woofer and compression-type tweeter. Crossover at 2500 cps. Brilliance control. Frequency response, 28-18,500 cps. Capacity, 35 watts. Impedance, 8-16 ohms. Depth, 6 3/4". Shpg. wt., 9 1/2 lbs.  
70 DU 538. No Money Down. NET 56.59

### DIFFUSICONE 12 2-WAY 12" SPEAKER

Dual horn-loading at apex of cone extends mid-range and high-frequency response. Mechanical crossover at 1000 cps. Frequency response, 28-15,000 cps. Capacity, 35 watts. 8-16 ohms. Shpg. wt., 9 lbs.  
70 DU 539. No Money Down. NET 38.95

### 315-C 3-WAY 15" SPEAKER

Woofer cone features high excursion, dual-spider piston and anti-breakup, low-resonance diaphragm, for rich natural bass. Multi-element Diffusicone mid-range section, crosses over at 1000 cps. Uses T-50 Hypersonic driver and axially mounted, reciprocating flare wide-angle tweeter horn. Response, 25 cps to inaudibility. Balance controls for mid-range and treble. Magnet wt., 6 1/2 lbs. Capacity, 50 watts. Imp., 8-16 ohms. Depth, 12". Wt., 35 lbs.  
70 DU 536. No Money Down. NET 152.88

### 308 3-WAY 8" SPEAKER

Features special design 8" woofer with extra-large voice coil for excellent bass response. Multi-element Diffusicone mid-range unit, compression-type tweeter and built-in 5000 cps crossover. True-axial construction; tweeter is projected through center of woofer. Response, 30-17,000 cps. Power handling capacity, 35 watts. Impedance, 8-16 ohms. Depth, 6 1/4". Shpg. wt., 7 lbs.  
70 D 505. No Money Down. NET 41.16

### 312 3-WAY 12" SPEAKER

Superb, 12" Diffaxial speaker that provides unexcelled, wide-range reproduction. Capable of frequency response of 28-40,000 cps. Features: 12" high-compliance woofer cone; patented, multi-element "diffusicone" for bright, full-bodied mid-range; and center-mounted super-tweeter for sparkling clean high-frequency response. Tweeter provides 120° sound dispersion in all directions. Tweeter also features its own specially constructed baffle that prevents acoustic interaction between tweeter and woofer.

Unit is also equipped with built-in L-C crossover network and convenient adjustable brilliance control—allows you to set high frequencies to suit your personal listening tastes and the acoustics of your listening room. Frequency response, 28-40,000 cps. Sturdy, die-cast one-piece basket assures perfect rigidity. May be mounted on either front or rear of baffle board. Capacity, 35 watts. Impedance, 8 or 16 ohms. Depth, 6 3/4". Shpg. wt., 11 lbs.  
70 DU 537. No Money Down. NET 71.54

## Tweeters, Drivers and Crossover Networks



**COBREFLEX TWIN-FLARE HORN.** Mid-range horn for 3-way speaker systems. Requires driver unit such as T-30, at right, 27° exponentially flared air column permits crossover as low as 350 cps. Aluminum die casting. 1 1/2"-18 throat. Size, 10 1/4"x18 1/2"x9 1/4". Shpg. wt., 10 1/4 lbs.  
95 DX 184. No Money Down. NET 23.67

**H-600 MID-RANGE AND HIGH-FREQUENCY HORN.** 600-cycle cutoff, wide-angle horn. Adapted for use with T-30 driver (at right). Combines "reciprocating flare" principle with hemispherical deflection for uniform sound from 600 cps to beyond audibility. 7 3/4"x8 3/4"x4 1/4". Shpg. wt., 2 1/2 lbs.  
81 D 949. NET 18.62

**MODEL HF-206 HYPERSONIC TWEETER.** Uses wide-angle horn for 120° horizontal and 50° vertical dispersion. 2500 cps to inaudibility. Cap., 50 watts. Requires N-1 crossover. 8 ohms. 6x3 1/4"x6 3/4". Wt., 3 1/2 lbs.  
95 D 190. No Money Down. NET 32.34

**MODEL UXT-5 SUPER TWEETER.** Employs efficient compression driver unit coupled to "reciprocating flare" horn. For use with N-1 high pass filter. Response, 5000-18,500 cps. Capacity, 50 watts. Impedance, 8 ohms. 4 1/4"x2 1/2"x4". Shpg. wt., 1 1/4 lbs.  
81 D 564. No Money Down. NET 20.58

**MODEL N-1 ADJUSTABLE HIGH-PASS FILTER.** With built-in brilliance control. Crossover combinations: 2500, 5000 and 10,000 cps at 8 ohms; 1250, 2500 and 5000 at 16 ohms; also 5000 and 10,000 cps at 4 ohms. Fits panels to 1". 3 5/8"x3 1/4"x3". 1 1/4 lbs.  
95 D 193. NET 13.72

**N-2A CROSSOVER NETWORK.** Can be used with N-1 for 3-way speaker systems. 6 db, 2-way network. May be used in pairs as 12 db network or singly as 12 db low or high-pass filter. Crossover: 300 or 700 cps at either 8 or 16 ohms; 700 cps at 4 ohms. 3 5/8"x3 1/4"x3". Shpg. wt., 2 1/4 lbs.  
95 D 194. NET 17.64

**MODEL 4401 TWEETER.** Efficient driver mechanism and voice coil suspension in sealed unit. Response, 2500 to 15,000 cps. Requires N-1 crossover. Capacity, 50 watts. 8 ohms. 2 1/4"x6x6 3/4". Wt., 2 lbs.  
95 D 167. NET 17.64

**C-8M MID-RANGE SPEAKER.** 8" unit with frequency response (crossover points) of 700-5000 cps. Perfect for use as mid-range unit in 3-way systems. Capacity, 50 watts. Imp., 8 ohms. Depth, 4 1/2". Wt., 3 1/2 lbs.  
70 D 552. NET 16.61

**MODEL T-30 MID-RANGE AND HIGH-FREQUENCY DRIVER.** For use with Cobreflex or H-600 horns. Response, 350 to 15,000 cps. Capacity, 50 watts. Imp., 8 ohms. 1 1/4"-18 throat; 3 1/2"x3 3/4". Wt., 2 3/4 lbs.  
81 D 589. No Money Down. NET 29.40

**MODEL AP-8 LEVEL CONTROL.** Fits panels to 3/4". Shpg. wt., 7 oz.  
95 D 132. NET 3.87

Allied Maintains the World's Largest Stocks of Hi-Fi Components

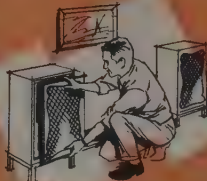


# High-Compliance . . . High-Efficiency Speaker Systems

MEDALLION XII WITH EXCLUSIVE "SELECT-A-STYLE" GRILLES

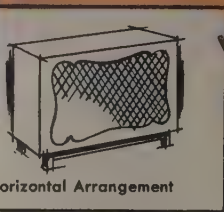


French Provincial  
Medallion XII 3-Way Hi-Fi  
Speaker System

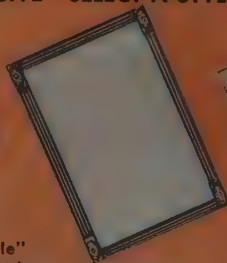


## SNAPS RIGHT ON

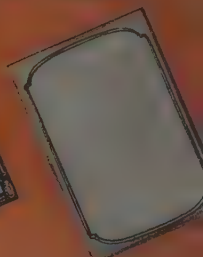
Interchangeable "Select-A-Style"  
grilles snap in place . . . let you match  
any room decor.



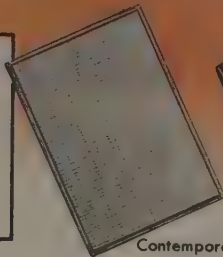
Horizontal Arrangement



Italian Provincial



Early American



Contemporary



Swedish Modern

NET  
**\$137<sup>15</sup>**  
NO MONEY  
DOWN

Medallion XII—University's dramatically different 3-way high-fidelity speaker system offered in a choice of attractively finished cabinets. Features unique "select-a-style" grilles—quickly and easily converted to desired furniture setting by snapping on any of five grilles (listed at the right). It's an excellent choice for the hi-fi enthusiast seeking full-dimensional sound plus flexibility of decor. Speaker components

include: 12" woofer, 8" mid-range unit, and the Sphericon super-tweeter. Ultra-linear frequency response from 28-22,000 cps. Brilliance controls permit setting to acoustics of room. Size, 24x17x11<sup>1</sup>/<sub>4</sub>". Less base and "select-a-style" grille. Since matching grille for Provincial and American styles are available in fruitwood only, select a Medallion XII with fruitwood finish. Specify mahogany, oiled walnut or fruitwood. Shpg. wt., 40 lbs.  
70 DU 650C. *Specify Finish.* NET.....137.15

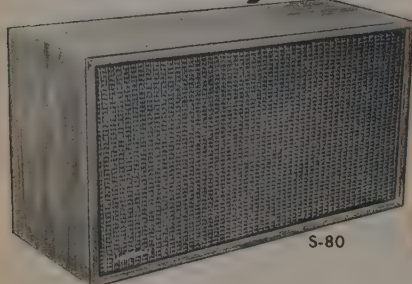
"SELECT-A-STYLE" GRILLES. Assembled, beautifully finished frames that easily snap on Medallion XII cabinet. Available in five popular styles to suit any motif. Early American and French Provincial available in fruitwood only. Italian Provincial, Contemporary, and Swedish Modern in mahogany, oiled walnut or fruitwood. Shpg. wt., 3<sup>3</sup>/<sub>4</sub> lbs.

|                                                                      |       |
|----------------------------------------------------------------------|-------|
| 70 DU 653. MXII Early American. <i>Fruitwood only.</i> NET.....      | 14.65 |
| 70 DU 652. MXII French Provincial. <i>Fruitwood only.</i> NET.....   | 14.65 |
| 70 DU 591C. MXII Italian Provincial. <i>Specify finish.</i> NET..... | 14.65 |
| 70 DU 651C. MXII Contemporary. <i>Specify finish.</i> NET.....       | 9.75  |
| 70 DU 592C. MXII Swedish Modern. <i>Specify finish.</i> NET.....     | 14.65 |

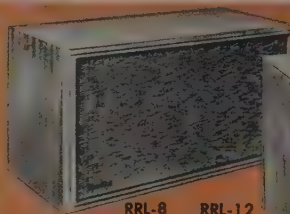
MXII BASE. Attractive hand-rubbed base for use with the Medallion XII speaker system. Blends with any of the "select-a-style" grilles—can be used for horizontal or vertical arrangement. 4<sup>1</sup>/<sub>4</sub>" high. Specify mahogany, oiled walnut, or fruitwood. Shpg. wt., 3 lbs.  
70 DU 654C. *Specify Finish.* NET.....14.65

## University

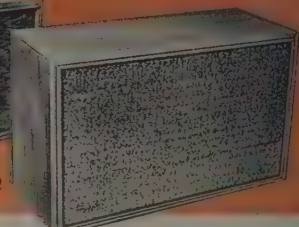
COMPACT PERFORMANCE SPEAKER SYSTEMS



S-80



RRL-8 RRL-12



## 2-Way, High-Efficiency Speaker System

As Low As

**\$55<sup>81</sup>**

NO MONEY  
DOWN

MODEL S-80. Offers excellent wide-range response—perfect for use in monophonic or stereo music system applications. The small size of the S-80 makes it ideal for bookshelf installation—finished on all four sides, it can be used in a wide variety of upright or horizontal installations. Includes: C-8W 8" woofer; 3<sup>1</sup>/<sub>2</sub>" direct-radiator tweeter; and L-C type crossover network (crossover point, 2500 cps). Enclosure employs ported phase-inverter principle for clean, smooth bass response. 1/2" wood panels for sturdiness without distortion-causing resonances. Power handling capacity, 25 watts. Impedance: 8-16 ohms. Size, 11<sup>1</sup>/<sub>2</sub>" high, 21<sup>3</sup>/<sub>4</sub>" wide, 9<sup>1</sup>/<sub>4</sub>" deep. Shpg. wt., 17 lbs.

|                                 |       |
|---------------------------------|-------|
| 70 DU 237. Mahogany. NET.....   | 58.75 |
| 70 DU 238. Walnut. NET.....     | 58.75 |
| 70 DU 239. Unfinished. NET..... | 55.81 |

MODEL RRL-8. Here's a beautifully styled speaker system—cabinet features a molded front edging with matching grille cloth. Components include: 8" high compliance woofer; two 3<sup>1</sup>/<sub>2</sub>" direct radiator tweeters; L-C type crossover network and brilliance control. Finished on all four sides. Capacity, 30 watts. Impedance, 8-16 ohms. Size, 12<sup>1</sup>/<sub>2</sub>"x22<sup>1</sup>/<sub>2</sub>"x10<sup>5</sup>/<sub>16</sub>". Shpg. wt., 28 lbs.

|                                |        |
|--------------------------------|--------|
| 70 DU 240. Mahogany. NET.....  | 97.51  |
| 70 DU 241. Walnut. NET.....    | 100.45 |
| 70 DU 242. Lined Oak. NET..... | 100.45 |

MODEL RRL-12. Full-range performance from this attractively styled, compact speaker system. Includes: 12" ultra-linear response woofer; 3<sup>1</sup>/<sub>2</sub>" mid-range speaker; Sphericon super-tweeter; L-C type network and brilliance control. Power handling capacity, 40 watts. Response, 35-18,000 cps. Impedance, 8-16 ohms. Size, 13<sup>1</sup>/<sub>2</sub>"x25x12<sup>1</sup>/<sub>2</sub>". Shpg. wt., 38<sup>1</sup>/<sub>2</sub> lbs.

|                                |        |
|--------------------------------|--------|
| 70 DU 244. Mahogany. NET.....  | 117.55 |
| 70 DU 246. Lined Oak. NET..... | 121.47 |
| 70 DU 245. Walnut. NET.....    | 121.47 |

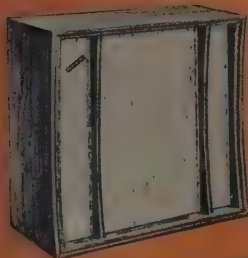
70

Choose Your Own Music System Featuring University Components—Write for Price



# Enjoy Truly Impressive Sound Quality . . .

# Wharfedale

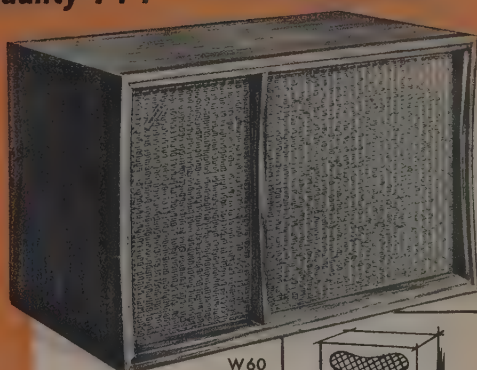


W70... the voice and presence of a live performance.



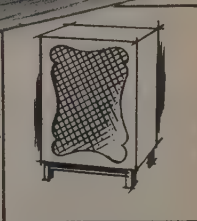
W40 speaker system—the new compact with the impressive sound.

Achromatic Sound



W60

Shelf-type speaker systems employing sand-filled enclosure.



As Low As

**\$101<sup>50</sup>**

**NO MONEY DOWN**

- Clear, True, Resonance-Free Bass Response
- Speakers Critically Tuned to Enclosure

## MODEL W40 2-WAY SPEAKER SYSTEM

Moderately-priced speaker system designed for use in limited-space music systems. Employs two specially designed and carefully tuned speakers—8½" woofer with high flux-density magnet and 5" tweeter—in a specially designed, sand-filled enclosure. Handsomely finished on all four sides. Treble control adjustable to match room acoustics. Crossover at 1500 cps. Power handling capacity, 20 watts. Impedance, 8 ohms. 12x24x10". Shpg. wt., 45 lbs.

|                                   |       |
|-----------------------------------|-------|
| 70 DZ 587. Mahogany. NET.....     | 79.50 |
| 70 DZ 588. Oil'd Walnut. NET..... | 79.50 |
| 70 DZ 589. Unfinished. NET.....   | 69.50 |

## MODEL W70 3-WAY SPEAKER SYSTEM

Deluxe full fidelity, 3-way system that delivers outstanding reproduction throughout the listening range. Employs finest quality 12" woofer with massive 9¼-lb. magnet; 10" mid-range speaker and 3" tweeter. Sturdy ¾" hardwood enclosure contains 9-lb. sand filler. Controls adjust mid-range and high frequencies. Capacity, 30 watts. Impedance, 8 ohms. Size, 24x21x12". Available in choice of mahogany or oil'd walnut veneers. Shpg. wt., 60 lbs.

|                                                 |        |
|-------------------------------------------------|--------|
| 70 DZ 659C. Specify Finish. NET.....            | 164.50 |
| MODEL W70 PROVINCIAL STYLING. Fruitwood finish. |        |
| 70 DZ 699. NET.....                             | 189.50 |
| 70 DZ 660. Model W70 Unfinished. NET.....       | 146.50 |

MOUNTING BASE FOR W70. Mahogany or walnut, 7 lbs.

|                                                        |      |
|--------------------------------------------------------|------|
| 70 DU 590C. Specify Finish. NET.....                   | 9.95 |
| 70 DU 554. Unfinished Base. Shpg. wt., 7 lbs. NET..... | 8.95 |

## MODEL W60 2-WAY SPEAKER SYSTEM

Built to please the most critical audio connoisseur and priced to take its place in the moderate-priced music system, the Wharfedale W60 is an outstanding value. Employs Wharfedale's unique sand-filled principle—two layers of wood with a completely inert filler of dry sand between them—for resonance-free reproduction. This remarkable feature produces full, rich bass—down to 20 cycles—without spurious resonances that interfere with listening pleasure. Responsible for the sound artistry of the system is a highly effective combination of specially-designed 5" tweeter and 12" woofer, critically tuned to the enclosure. Finished on four sides. Impedance, 8 ohms. Size, 14½x24x13". Available in mahogany or oil'd walnut veneers. Wt., 50 lbs.

|                                      |        |
|--------------------------------------|--------|
| 70 DU 038C. Specify Finish. NET..... | 116.50 |
|--------------------------------------|--------|

MODEL W60 PROVINCIAL STYLING. Fruitwood finish.

|                                           |        |
|-------------------------------------------|--------|
| 70 DZ 599. NET.....                       | 134.50 |
| 70 DU 039. Model W60 Unfinished. NET..... | 101.50 |

MOUNTING BASE FOR W60. Mahogany or walnut, 7 lbs.

|                                                        |      |
|--------------------------------------------------------|------|
| 70 DU 590C. Specify Finish. NET.....                   | 9.95 |
| 70 DU 554. Unfinished Base. Shpg. wt., 7 lbs. NET..... | 8.95 |

## WHARFEDALE CUSTOM QUALITY SPEAKER COMPONENTS

### SUPER 12/FS/AL 12" SPEAKER

NET

**\$89<sup>50</sup>**

**NO MONEY DOWN**

Superior performing 12" high-fidelity loudspeaker that delivers exceptionally smooth, realistic response—custom-built with the very finest materials and meticulous attention to every detail—each unit is individually tested to meet the manufacturer's specifications. Produces excellent results in any type of enclosure. Ideal for use in monophonic music systems—highly recommended for use in pairs in deluxe stereo music systems. The die-cast frame, and high flux density magnet and aluminum voice coil are engineered and tested to provide outstanding sound reproduction. Employs cone of special foam construction—for high compliance. Low cone resonance reduces transient distortion to an absolute minimum and eliminates unnatural "boom." Carefully wound voice coil achieves amazingly clean highs. Frequency response, 30-18,000 cps. Cone resonance, 30-38 cps. Impedance, 16 ohms. Depth, 7". Requires 10½" baffle opening. Shpg. wt., 22 lbs.

|                     |       |
|---------------------|-------|
| 82 DU 136. NET..... | 89.50 |
|---------------------|-------|

### SUPER 3 HIGH-FIDELITY TWEETER

A superb ultra-high frequency speaker for use with any speaker system. Delivers exceptionally clean, high-frequency response—from 3000 to 20,000 cycles—for excellent reproduction of the original performance. Ideal for addition to existing speaker systems. Crossover, 3000 cps. Imp., 8 or 16 ohms. Total flux, 54,000 maxwells. Dia., 3½". Depth, 2½". Shpg. wt., 4½ lbs.

|                    |       |
|--------------------|-------|
| 82 D 145. NET..... | 26.50 |
|--------------------|-------|

### SUPER 8/FS/AL 8" SPEAKER

An outstanding 8" full range speaker which impressively proves how well a moderately sized speaker of excellent quality can perform. Aluminum voice coil. Resonance, 55-65 cps. Impedance, 8/10 ohms. Depth, 4". Requires 7" baffle opening. Total flux, 60,000 maxwells. Power handling capacity, 15 watts. Shpg. wt., 5 lbs.

|                    |       |
|--------------------|-------|
| 82 D 135. NET..... | 26.50 |
|--------------------|-------|

### 3000 CYCLE Crossover NETWORK

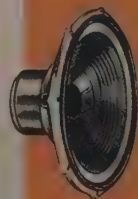
Divides bass and treble between loudspeakers to eliminate distortion of treble by bass. Impedance, 16 ohms. Wt., 2½ lbs.

|                    |       |
|--------------------|-------|
| 82 D 143. NET..... | 18.25 |
|--------------------|-------|

Model 12/FS/AL Individually tested to meet rigid standards of excellence



Model 8/FS/AL Full-range 8" speaker



Super 3 Tweeter True concert brilliance



Express Shipment Recommended for High-Fidelity Equipment

**JBL**

# New Linear Efficiency Speakers and Systems...

## LANCER HIGH-FIDELITY SPEAKER SYSTEMS

**MODEL L33.** An exciting new shelf-type speaker system of modest dimensions, featuring the full-range, 8" JBL LE8 speaker. Reproduces music with highly realistic effect even when used with stereo amplifiers rated as low as 12 watts. Enclosure is ported to load the driver all the way down to below 35 cps for distortionless bass response; dural dome design of the LE8 reproduces highs to beyond 15,000 cps. Built to precision standards, the attractive enclosure is constructed of  $\frac{3}{4}$ " panels throughout; joints are lock-mitered and wood welded. Finished in oiled walnut to bring out the beautiful natural grain of the wood. Power capacity, 20 watts. Impedance, 16 ohms. Size:  $12\frac{1}{2} \times 23\frac{1}{2} \times 11\frac{1}{4}$ ". Wt., 42 lbs.

70 DZ 680, No Money Down, NET. .... 89.10

**MODEL L66.** Two-way system using a 10" low frequency driver and a high-frequency tweeter in the same enclosure as above. "Lans-a-lo" suspension permits  $\frac{3}{4}$ " cone excursions for deep bass without distortion. Middle and upper ranges of sound of 20 watts (10 watts per channel stereo). Capacity, 30 watts. Imp., 8 ohms.  $12\frac{1}{2} \times 23\frac{1}{2} \times 11\frac{1}{4}$ ". Shpg. wt., 47 $\frac{1}{2}$  lbs.

70 DZ 682, No Money Down, NET. .... 139.50

## OLYMPUS FULL-RANGE SPEAKER SYSTEM

**MODEL D-50S6-2.** A unique speaker system designed for the audio connoisseur—exemplifies a perfect blend of highly advanced acoustical engineering with truly elegant styling. The solid non-resonant enclosure, weighing nearly 100 pounds, is styled in the timeless, classic tradition. Top edges are tapered; a hand-carved wood fretwork grille graces the enclosure.

Concert-hall reproduction of sound across the entire audio spectrum is achieved through the use of linear-efficiency inner components: the 15" LE15A bass woofer, capable of delivering frequencies from 16 to 1000 cps; HL91 exponentially tapered horn and acoustic lens assembly for frequencies from 500 cycles to well beyond audibility; LE75 high-frequency driver; and LX5 crossover. Transparently clear highs are distributed over a 120° horizontal angle to adequately cover any listening area—a design accomplishment especially appreciated in stereo music systems.

The LE15A employs a 4" edge-wound copper ribbon voice coil and massive, 19 $\frac{1}{2}$ -lb. magnetic assembly. Has free-cone "Lans-A-Loy" suspension for extremely long cone excursions required for low-bass frequencies. All components are installed in the C-50 Olympus enclosure. Oiled walnut finish. Capacity, 60 watts. Impedance, 16 ohms. Size,  $27\frac{1}{2} \times 40 \times 19\frac{3}{4}$ ". Shpg. wt., 160 lbs.

70 DZ 564, No Money Down, NET. .... 595.50

## MADISON WIDE-RANGE SPEAKER SYSTEM

**MODEL D-48LE8.** Carefully engineered speaker enclosure that employs and complements the excellent characteristics of the JBL LE8 8" extended-range speaker. The Madison provides a rigid and non-resonant housing; a small loading duct enables full-bodied low frequencies to be generated in spite of the diminutive size of the enclosure. Interior surfaces are padded with one-inch thick acoustical fiberglass to damp reflections and standing waves. Beautifully finished in luxurious oiled walnut on all four sides, as well as the front face. Matching grille cloth sustains the neat, modern look; decorates any room setting. With LE8 linear efficiency speaker (fully described below) custom-installed. Size:  $11\frac{3}{4}$ " high,  $23\frac{3}{4}$ " wide,  $13\frac{1}{4}$ " deep. Power handling capacity, 20 watts. Impedance, 16 ohms. Shpg. wt., 44 lbs.

70 DZ 565, No Money Down, NET. .... 124.50

## LINEAR EFFICIENCY HI-FI SPEAKERS

**MODEL LE8 8" HI-FI SPEAKER.** A full-range speaker of unique, free-cone design; delivers remarkably smooth, extended response. Specifically engineered for installation in small shelf-type enclosures and closed cabinets of minimum dimensions. Special cone suspension and large voice coil provide wide dynamic range. Rigid cast aluminum frame is non-resonant—speaker may be front or rear mounted in enclosure or installed in wall. Response, 30-15,000 cps. Power handling capacity, 20 watts. Impedance, 16 ohms. Depth,  $4\frac{3}{4}$ ". Shpg. wt., 11 lbs.

70 D 466, No Money Down, NET. .... 63.00

**MODEL LE10A 10" LOW-FREQUENCY SPEAKER.** Generates powerful bass in enclosures as small as 1-cubic foot. Has 6 pound magnet assembly, and edgewound copper ribbon voice coil. Cone resonance, 15 cps. Capacity, 30 watts. Imp., 16 ohms, 15 lbs.

70 D 566, No Money Down, NET. .... 55.80

**MODEL LE30 TWEETER.** Reproduces high frequencies with crystal clarity. Use only with the LX3-1 network, below. Capacity with LX3-1, 30 watts. Impedance, 16 ohms. Shpg. wt., 4 lbs.

70 D 567, No Money Down, NET. .... 55.80

**70 D 568, Model LX3-1 Crossover Network.** Not illus. For use with LE30. Has variable control. 16 ohms. Wt., 3 lbs. NET. .... 17.40

L33  
Lancer  
with LE8  
Speaker

L66

D-50S6-2  
Olympus  
with S-6  
Speaker  
System

S6  
Speaker  
System

Use  
Horizontally  
Or Vertically

D-48 LE8 Madison

LE8

LE30

LE10A

LE15A

LE75 and HL91

LX5



# Extended Range Speakers and Enclosures

**JBL**

## JBL C36 AND C38 SPEAKER ENCLOSURES

**MODEL C36.** Simple, gracefully styled bass reflex enclosure with hand-rubbed light walnut finish—enhances the beauty of any setting. Acoustics perfectly matched for JBL speakers listed below. Accepts any 8", 12" or 15" speaker. 29½x19½x15¼". With 5" legs. Less adapter kit, below. Shpg. wt., 47 lbs.

**82 DZ 846. No Money Down. NET.....90.00**

**MODEL C38.** Same acoustic design as Model C36, but has lowboy styling. 24½x23¼x15¼" (with legs). Less adapter kit. 47 lbs.

**82 DZ 168. No Money Down. NET.....90.00**

**ENCLOSURE ADAPTER KITS.** Required for installation of speakers.

| Stock No. | Mfr's Type | For Mounting Speaker Models | Shpg. Wt. | NET EACH |
|-----------|------------|-----------------------------|-----------|----------|
| 82 DX 829 | A56        | D123, 075, and N2600        | 2¾ lbs.   | 1.80     |
| 82 DX 830 | A58        | D130, 075, and N2600        | 1¾ lbs.   | 1.50     |
| 82 DX 831 | A59        | D208 or D216                | 4 lbs.    | 1.80     |
| 82 DX 832 | A60        | D123 or D131                | 3¾ lbs.   | 1.80     |
| 82 DX 833 | A61        | D130                        | 2¼ lbs.   | 1.80     |

## JBL SPEAKERS, TWEETER, AND CROSSOVER NETWORK

**MODEL D131 12" SPEAKER.** Response, 30-17,000 cps. Capacity, 25 watts. Resonance, 39 cps. 16 ohms. Depth, 5". Wt., 21 lbs.

**82 DU 129. No Money Down. NET.....93.00**

**82 DU 125. Model D130. 15" version of D131, above.** Capacity, 25 watts. Resonance, 37 cps. 5½" deep. Wt., 23 lbs. **NET.....96.00**

**MODEL D123 12" SPEAKER.** Response, 30-15,000 cps. Capacity, 20 watts. Resonance, 35 cps. 16 ohms. 3¾" deep. Wt., 12 lbs.

**82 DX 112. No Money Down. NET.....69.00**

**MODEL D216 8" SPEAKER.** Response, 40-13,000 cps. Capacity, 12 watts. Resonance, 55 cps. 16 ohms. Depth, 2¾". Wt., 6 lbs.

**82 D 113. No Money Down. NET.....33.60**

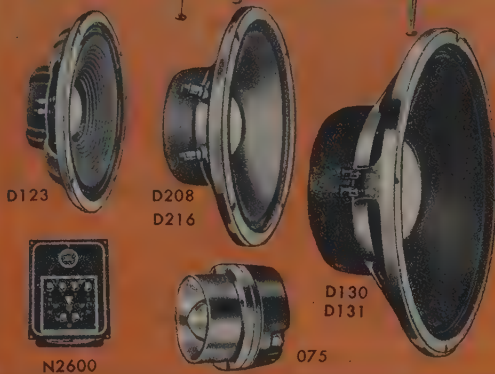
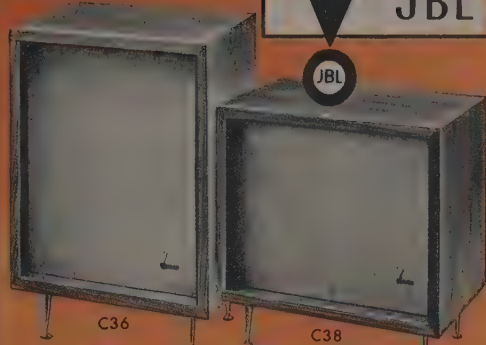
**82 D 126. Model D208. Same as D216, but 8 ohms. NET...33.60**

**MODEL 075 TWEETER.** For 2-way systems crossing over at 2500 cps or higher. Imp., 16 ohms. Length, 3¼". Shpg. wt., 6 lbs.

**82 D 118. No Money Down. NET.....59.40**

**MODEL N2600 CROSSOVER NETWORK.** For use with 075 tweeter and above speakers. Crossover, 2500 cps. Impedance, 16 or 32 ohms. 4¾x6x3¼". Shpg. wt., ¾ lbs.

**82 D 199. No Money Down. NET.....24.60**



# Top-Quality High-Fidelity Equipment . . .

**KLH**

## FM RECEIVING SYSTEM



Speaker

Tuner-Amplifier

An integrated high-fidelity FM broadcast receiving system designed and developed for brilliant performance. Extremely compact, the complete system can be placed anywhere—a 30-ft. cord connects the tuner-amplifier unit with the matching, twin speaker section.

## NEW MODEL 8 FM RECEIVING SYSTEM

Consists of FM Tuner-Amplifier and wide-range Speaker System. Two miniature acoustic suspension speakers sealed in a fiberglass filled, solid walnut enclosure, produce "big speaker" sound. Tuner section is individually temperature compensated to insure drift-free performance. Remarkable sensitivity is obtained and reproduced by the tuner-amplifier. Employs 7 tubes, 2 diodes in a wide-band detector circuit, and silicon power rectifier. Has built-in line cord antenna, plus 300 ohm terminals; separate controls for On-Off, Treble, Volume, and Tuning. Also multiplex adapter jack, outputs from tuner, and amplifier input jack. Cabinets each, 5¾x10¾x6¾". For 110-120 v., 60 cycle AC. Shpg. wt., 15 lbs.

**72 DX 781. NET.....159.00**

KLH 6

KLH 7

## MODEL 6 TWO-WAY SPEAKER SYSTEM

Complete-range system offers exceptionally smooth performance from 32-16,000 cps. Employs a 12" acoustic suspension speaker and a smaller, cone-type direct radiator—pressure glued into fiberglass-filled, sealed cabinet. Uses an L-C crossover network; 3-position switch for balancing low and high frequency sections. Crossover point, 1500 cps. Capacity, 75 watts. Impedance, 8 ohms. Size: 23½x12½x11¼". ¾" veneered plywood. Available in mahogany, walnut or unfinished (with surfaces smoothly sanded). Shpg. wt., 36 lbs. **No Money Down.**

**72 DU 790. Mahogany. NET.....129.00**

**72 DU 792. Oiled Walnut. NET.....134.00**

**70 DU 475. Unfinished. NET.....119.00**

## MODELS 7 AND 10 SPEAKER SYSTEMS

**MODEL 7.** Design same as KLH 6, but uses enclosure of 2.6 cu. ft. for extended lows; 2 cone radiators for coverage from 1500-20,000 cps. Capacity, 75 watts. Imp., 8 ohms. 24½x21½x11½". 52 lbs.

**70 DZ 606. Mahogany. NET.....196.00**

**70 DZ 607. Oiled Walnut. NET.....203.00**

**70 DZ 608. Unfinished. NET.....189.00**

**Model 10.** Uses 10" woofer, and cone tweeter. Requires 12 watts. Cap., 60 watts. Imp. 8 ohms. 12x23¼x8¾". 26 lbs.

**72 DZ 782. Mahogany. NET.....89.00**

**72 DZ 783. Oiled Walnut. NET.....94.00**

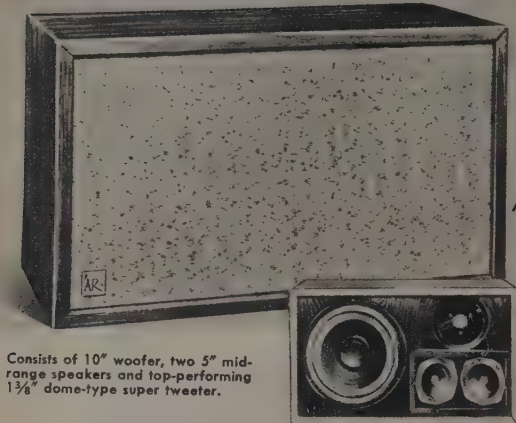
**72 DZ 784. Unfinished. NET.....86.00**

Express Shipment Is Recommended for High-Fidelity Equipment

AR

# Acoustic Suspension Speaker Systems

Utilizes the sealed-in air within the small-size enclosure as a pneumatic spring for the speaker cone during large excursions on very low bass notes. Exceptionally high-power handling capacity of these systems make them ideal for most high fidelity amplifiers.



Consists of 10" woofer, two 5" mid-range speakers and top-performing 1 3/4" dome-type super tweeter.

## AR-2A ACOUSTIC SUSPENSION SPEAKER SYSTEM

AS LOW AS

**\$109.00**

**NO MONEY DOWN**

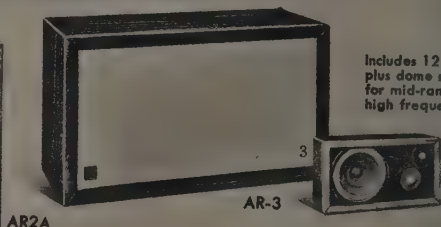
Outstanding three-way bookshelf-type speaker system for use in medium-priced stereo and monophonic systems. Delivers exceptionally clean response throughout the sound spectrum. Acoustic suspension design provides full, low-distortion bass reproduction in small-size enclosure—dual 5" speakers deliver clean mid-range—special 1 3/4" dome-type tweeter assures smooth, silvery highs. Components are mounted in a sealed, fiberglass-filled cabinet of braced 3/4" hardwood veneer. Free from vibration, resonance, etc. Due to its ability to reproduce sound remarkably clean and free of distortion, the AR-2A is an excellent choice for use by broadcasting studios, sound recording labs, etc. as a monitor speaker. It is available in a choice of finishes (finished on four sides): natural birch, mahogany or walnut. Suitable for custom installations is the unfinished model—for painting or other opaque finish. Requires amplifier rated at least 20 watts. (If two are used in stereo system, amplifier should be rated 20 watts per channel.) Crossover points at 2000 and 7500 cps. Horizontal dispersion, 90°. Harmonic distortion (at 10 watts) under 2% to 60 cps; under 3% to 50 cps. Impedance, 8 ohms. Size, 13 1/2 x 24 x 11 1/2". Shpg. wt., 38 lbs. *No Money Down.*

|                               |        |
|-------------------------------|--------|
| 70 DU 600, Natural Birch, NET | 122.00 |
| 70 DU 601, Mahogany, NET      | 122.00 |
| 70 DU 027, Oil Walnut, NET    | 128.00 |
| 70 DU 028, Unfinished, NET    | 109.00 |

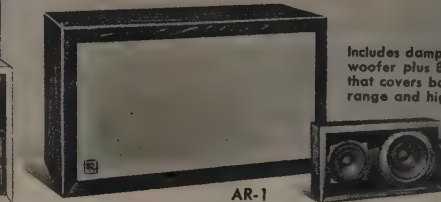
## AR-2A ACOUSTIC SUSPENSION SPEAKER SYSTEM

Identical to the AR-2A, but less the super tweeter. Finished on four sides. Shpg. wt., 36 lbs. *No Money Down.*

|                               |        |
|-------------------------------|--------|
| 82 DU 039, Natural Birch, NET | 96.00  |
| 82 DU 038, Mahogany, NET      | 96.00  |
| 70 DU 623, Oil Walnut, NET    | 102.00 |
| 79 DU 292, Unfinished, NET    | 89.00  |



Includes 12" woofer plus dome radiators for mid-range and high frequencies.



Includes damped 12" woofer plus 8" unit that covers both mid-range and highs.

## AR-3 ACOUSTIC SUSPENSION SPEAKER SYSTEM

Deluxe three-way system for use in the finest limited-space music systems. This sealed, bookshelf-size speaker system contains a 12" woofer with 3 3/4-lb. Alnico V magnet; 2" mid-range dome radiator with 3/4-lb. Alnico V magnet; and 1 3/4" high-frequency dome-shaped tweeter. 12" woofer is identical to that used in the well-known AR-1 system (below). Delivers full, rich, resonance-free bass. Finished on 4 sides for placement in any position. System includes L C type crossover network. Crossover points are at 1000 and 7500 cps. Pre-wired, variable level controls allow adjustment of both mid-range and high frequencies to suit the individual taste. Frequency response,  $\pm 2$  db, 38-20,000 cps. Requires relatively powerful amplifier—if two are used in a stereo system—amplifier should deliver minimum of 25 watts per channel. Impedance, 4 ohms. 14x25x11 1/2". Shpg. wt., 60 lbs. *No Money Down.*

|                               |        |
|-------------------------------|--------|
| 79 DZ 397, Mahogany, NET      | 216.00 |
| 79 DZ 398, Natural Birch, NET | 216.00 |
| 70 DZ 624, Oil Walnut, NET    | 225.00 |
| 70 DZ 022, Unfinished, NET    | 203.00 |

## AR-1 ACOUSTIC SUSPENSION SPEAKER SYSTEM

The speaker system that launched a new era in sound reproduction. The AR-1 features an air-damped 12" woofer plus 8" mid-frequency and high-frequency unit and 1000 cps crossover network. Response is  $\pm 1 1/2$  db, 38-1000 cps; extends to 13,000 cps at  $\pm 5$  db. For maximum sound reproduction, requires amplifier rated at least 30 watts for moderate level in average-size room (or 25 watts per channel when two are used in stereo systems); may be used with amplifiers rated at up to 60 watts (or 50 watts per channel, stereo) for higher level and in larger rooms. Imp., 4 ohms. Finished on 4 sides. 14x25x11 1/2". Wt., 52 lbs. *No Money Down.*

|                               |        |
|-------------------------------|--------|
| 82 DZ 033, Mahogany, NET      | 185.00 |
| 82 DZ 034, Natural Birch, NET | 185.00 |
| 82 DZ 253, Glossy Walnut, NET | 194.00 |
| 70 DZ 210, Unfinished, NET    | 172.00 |

## Concert Fidelity 605A 15" Duplex Speaker

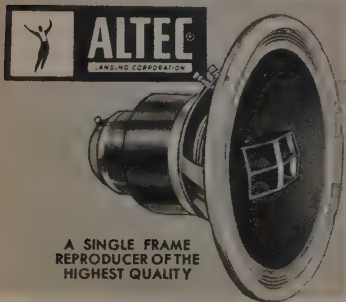
NET

**\$177.00**

**NO MONEY DOWN**

voice-coil-gap design that provides a uniform magnetic field over the full excursion of the voice-coil, holding distortion to an absolute minimum; edge wound copper-ribbon 3" voice coil; 2 1/2 lb. magnet. Treble section: 1 3/4" aluminum voice coil for high efficiency—higher acoustic transformation; mechano-acoustic loading cap. provides proper back loading of the aluminum diaphragm; true exponential multi-cellular horn for smooth 40° vertical x 90° horizontal distribution; magnet weight, 1 1/2 lb. 1600 cycle crossover network included. Capacity, 35 watts. Impedance, 16 ohms. Shpg. wt., 37 lbs.

|                                       |        |
|---------------------------------------|--------|
| 70 DU 476, <i>No Money Down</i> , NET | 177.00 |
|---------------------------------------|--------|



A SINGLE FRAME REPRODUCER OF THE HIGHEST QUALITY



# Dynamic High Fidelity Speaker Systems

COMPACT SPEAKER SYSTEMS TO REPRODUCE THE FULL DIMENSION OF SOUND



## MODEL S-2 SPEAKER SYSTEM

Deluxe shelf-size speaker system that provides exceptionally smooth response throughout the listening range—without coloration at any point of the audio spectrum. Exclusive internal design produces wide-angle dispersion of sound; system can be placed in any location without affecting sound quality. Four-driver, acoustic-compliance system features low-resonance, high-excursion 12" woofer; 2—dual-cone mid-range units; and special wide-dispersion spherical tweeter mounted in matched enclosure. Mid-range units are acoustically isolated to eliminate undesirable coupling and intermodulation. Because of the system's relatively low efficiency, it is recommended for use with amplifiers rated a minimum of 12 watts per channel for full-range dynamic reproduction. Power handling capacity, 70 watts program material. Size,  $23\frac{3}{4} \times 14\frac{1}{2} \times 12\frac{1}{2}$ ". Impedance, 16 ohms. Available in choice of mahogany or oiled walnut hand-finished, fine furniture veneers—specify choice of finish when ordering. Shpg. wt., 48 lbs.

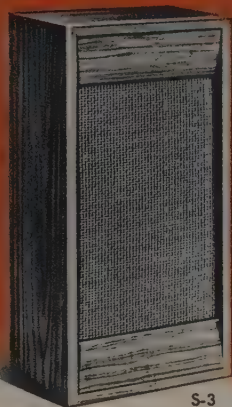
70 DU 618C. *Specify finish.* NET 199.95

## MODEL S-3 SPEAKER SYSTEM

A three-way acoustic compliance system of true book shelf size. Incorporates the exclusive wide-angle dispersion design of the S-2 (above) to simplify speaker placement in stereo systems. An excellent choice for reproducing completely balanced sound from lowest bass, through smooth middle frequencies, to very high treble notes. Consists of a 10" woofer, a mid-range unit, and a super-tweeter mounted in a matched enclosure. Cap., 70 watts. Imp. 16 ohms. Available in oiled walnut and mahogany. Size,  $23\frac{1}{2} \times 11\frac{3}{4} \times 9\frac{3}{4}$ ". Wt., 37 lbs.

70 DU 695C. *Specify finish.* NET 129.95

- Controlled Efficiency
- Mid-range and Tweeter Controls
- Sculptured Wood Panels



S-3

NET \$129.95 NO MONEY DOWN

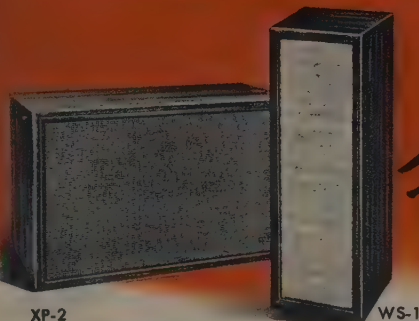


S-2

NET \$199.95 NO MONEY DOWN

PANORAMA OF AUDIO REPRODUCTION by

FISHER



XP-2

WS-1

## MODEL XP-2 SPEAKER SYSTEM

Designed for big sound from a compact speaker system. This moderately priced system offers a remarkable transient response and an unusually high overload capacity. Two 8" free-piston woofers assure splendid reproduction of bass tones. Tweeter is capable of truly clean response to 16,000 cycles. Cap., 30 watts. Imp., 8 ohms. Walnut finish. Size,  $22 \times 12 \times 11\frac{1}{4}$ ". Wt. 30 lbs.

84.50

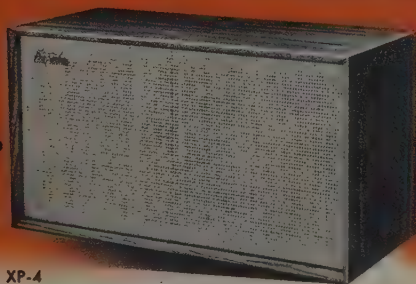
70 DU 593. *No Money Down.* NET.....

70 DU 594. *Unfinished. No Money Down.* NET.....79.50

## MODEL WS-1 SPEAKER SYSTEM

Improves sound of existing speaker system by adding high-frequency "brilliance". Frequency response, 250-12,000 cps.  $10 \times 2\frac{3}{4}$ " oval speaker disperses sound to a wide area—helps eliminate "hole-in-the-middle" effect.  $11\frac{1}{2} \times 3\frac{3}{4} \times 4\frac{3}{4}$ ". Capacity, 12 watts. Impedance, 8 ohms. Walnut finish. Shpg. wt., 5 lbs.

70 DX 595. *No Money Down.* NET.....29.75



XP-4

## NEW MODEL XP-4 SPEAKER SYSTEM

In this speaker system the conventional bass speaker frame has been eliminated—the bass speaker and the entire enclosure are a single inseparable unit. Includes: one 12" woofer, two 5" mid-range speakers, and one two-inch tweeter. Also has balance controls and a three-way crossover network. Cap., 60 watts. Response, 30-18,000 cps. Imp., 8 ohms. Oiled walnut.  $24\frac{1}{2} \times 14 \times 12\frac{1}{2}$ ". Wt. 53 lbs.

70 DU 596. *No Money Down.* NET.....199.50

70 DU 597. *Unfinished. No Money Down.* NET.....189.50

## MODEL XP-1 SPEAKER SYSTEM

3-way speaker system that offers superb bass, mid-range, and treble reproduction. Components of the XP-1 include: 12" woofer, 5" mid-range unit, 3" cone-type tweeter. Walnut finish. Response, 30-18,000 cps. Cap., 60 watts. Imp., 8 ohms.  $13\frac{1}{4} \times 24 \times 11\frac{3}{4}$ ". 40 lbs.

70 DU 611. *No Money Down.* NET.....129.50

70 DU 598. *Unfinished. No Money Down.* NET.....124.50

Your Satisfaction is Guaranteed at Allied

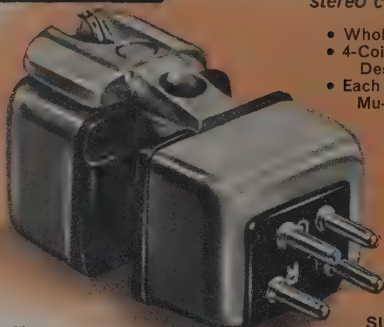


Greatest values ever offered in  
stereo cartridges, featuring:

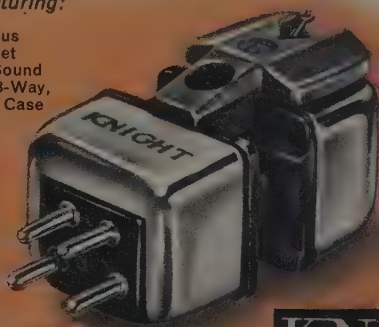
- Whole Diamond Stylus
- 4-Coil, Moving-Magnet Design for Great Sound
- Each Cartridge Has 8-Way, Mu-Metal Shielded Case



For the Finest Music  
Systems and Profes-  
sional Applications



SUPERIOR HI-FI  
SPECIFICATIONS



Outstanding  
Stereo Performer



For the most critical audio requirements

### KN-500X Professional Cartridge

ONLY  
\$1795

Here's the cartridge that has won nationwide acclaim for its performance and features. Patterned after the popular KN-500 at right, the KN-500X fully meets the most critical requirements of the audio connoisseur. Has .0005" polished diamond stylus for precise tracking and minimum high-frequency distortion. Its minimized moving mass and low-tracking pressure of 1 to 4 grams can double and even triple the life of your records—and provide marvelous sound. *Output:* 9 mv at 10 cm/sec. Each KN-500X is individually factory-checked; channels are balanced to within 1 db. *Compliance:* 6x10<sup>-6</sup> cm/dyne. *Response:* ±2 db, 20-20,000 cps. 4 terminals; ½" mtg. centers. Made in U.S. Shpg. wt., 3 oz. 89 RC 225. ONLY.....17.95

89 RC 246. Replacement .0005" Stylus. ONLY.....9.95

Incomparable "best-buy" unit at low cost

### KN-500 Deluxe Stereo Cartridge

ONLY  
\$1295

Recommended for use in home music systems, the KN-500 leads the field in quality and economy—equals cartridges costing up to 3 times as much. Provides new beauty from your stereo records, and can be used to play all monophonic 33½ and 45 rpm LP's too. Features minimized moving mass (as in the KN-500X), to provide longer record life as well as better sound. Tracks loudest bass passages with extreme accuracy. Employs polished .0007" diamond needle—tracks at 2 to 8 grams. Front and back mu-metal shielding virtually eliminates hum. *Output:* 9 mv at 10 cm/sec. *Frequency Response:* ±2 db, 20 to 20,000 cps. *Compliance:* 4x10<sup>-6</sup> cm/dyne. 4 terminals; ½" mtg. centers. Made in U.S. Wt., 3 oz. 89 RC 220. ONLY.....12.95

89 RC 222. Replacement .0007" Stylus. ONLY.....7.50



Calibrated Sliding  
Ring Provides 1 to 4  
Grams Pressure with  
Any Cartridge

### New Knight Stereo Pickup Arm

ONLY  
\$1995

NO MONEY  
DOWN

Loaded with unique features, yet costs about 30% less than most standard pickup arms! Dynamic balance, achieved through use of a sliding counterweight, assures perfect tracking and permits using any cartridge in the KN-1020 plug-in head. Head features self-cleaning, sliding leaf blades of silver-plated alloy for perfect electrical contact. Short overhang of counterweight on arm permits mounting in cabinets or where clearances at rear and side are very close. Length, 11". Made in Denmark. With terminal strip; less audio cables and cartridge. 2 lbs. 35 DX 769. No Money Down. ONLY.....19.95

56 R 578. Extra Plug-In Shell. 3 oz. ONLY.....2.95

#### Outperforms Far Costlier Arms

Employs same gimbal suspension as used in navigation instruments—allows free movement of arm in all directions, without binding.

Exclusive lateral compensation—needle rides evenly on both sides of groove to compensate for "drag" that may be exerted by mass of arm. An important feature for stereo.

Takes only 10 seconds after cartridge is installed to achieve dynamic balance—turntable need not be perfectly level for perfect tracking!





**to Cost You Less . . . to Play Far Better . . . to Prolong Record Life**

KN-1000 2-speed Turntable with Hysteresis-Synchronous Motor; includes Wood Base

KN-1020 Pickup Arm with KN-500X Cartridge installed in Plug-In Shell; Has Diamond Stylus



Includes Allied's "Stereo Spectacular" 12" Demonstration Record

*Save on this studio-quality turntable, arm and cartridge combination!*

## Complete Turntable System Featuring Professional Knight Units

**ONLY \$84.50**  
**NO MONEY DOWN**

YOU GET ALL THIS:

|                                     |                |
|-------------------------------------|----------------|
| KN-1000 Turntable & Base            | \$55.45        |
| New KN-1020 Pickup Arm              | 19.95          |
| KN-500X Stereo Cartridge            | 17.95          |
| New 12" Demonstration Record        | 2.49           |
| <b>TOTAL REGULAR CATALOG PRICES</b> | <b>\$95.84</b> |
| <b>YOU PAY ONLY</b>                 | <b>\$84.50</b> |
| <b>YOU SAVE</b>                     | <b>\$11.34</b> |

A bargain package that saves you \$11.34 and provides quality on a par with professional broadcast-studio record playing equipment! System includes: Knight KN-1000 2-Speed Turntable with Base; new Knight KN-1020 Stereo Pickup Arm; Knight KN-500X Professional Stereo Cartridge with .0005" Diamond Stylus; and the new Allied "Stereo Spectacular" 12" Stereo Demonstration Record.

The KN-1020 pickup arm complements the turntable with design features that guarantee precise, balanced tracking of record grooves. One of the finest cartridges available, the KN-500X does its share in contributing to the superb fidelity provided by this hand-picked array of components. "Stereo Spectacular" record includes 10 classic selections, specially chosen to demonstrate the dynamic audio range of great music. Wood base is 4x16 $\frac{3}{4}$ x13 $\frac{1}{4}$ "; oiled walnut, fine furniture veneer. Pre-drilled for quick, easy installation of turntable and arm; cartridge is already installed in plug-in head. System shpg. wt., 24 lbs.

20 HF 284-3. *No Money Down.* ONLY.....84.50

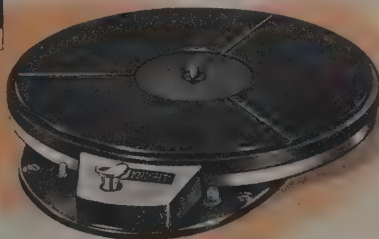
*World's Finest Turntable Value*

### Knight Model KN-1000 2-Speed Hysteresis Turntable

**ONLY \$48.50**  
**NO MONEY DOWN**

Compares with the costliest of record-playing equipment. Ultra-reliable hysteresis-synchronous motor has unique suspension to isolate all motor noises; R-C network prevents switching noises. Dynamically balanced, 6-lb. cast aluminum turntable with ridged rubber mat . . . all rotating parts mirror-lapped for smoothest operation. *Speeds:* 33 $\frac{1}{3}$  and 45 rpm. *Hum:* -80 db. *Flutter & Wow:* less than 0.15% total. *Rumble:* -50 db. Requires 4" below mtg. board. Less base (see right), and pickup arm. For 110-120 v., 60 cycle AC. Made in Great Britain. Wt., 15 lbs.

35 DU 768. *No Money Down.* ONLY.....48.50



**WOOD BASES FOR KN-1000.** Size, 4x16 $\frac{3}{4}$ x13 $\frac{1}{4}$ ". Unfinished base may be stained and lacquered to match other woods. 6 lbs.

35 DX 770. Oiled Walnut. ONLY.....6.95  
35 DX 771. Unfinished Korina Veneer. ONLY.... 4.95

# Garrard

## FEATURING THE NEW CONCEPT

Garrard Automatic Turntables were designed to fill a definite need. Serious audiophiles have always had to choose between the convenience of a record changer and the professional performance previously available only from a turntable.

**SAVE UP  
TO \$34.99  
ON THESE  
COMBINATION OFFERS!**

### CHOOSE ONE OF THESE FOUR STEREO CARTRIDGES



Shure M7D



Knight KN-500X



Pickering 380-C



Empire 108

Save by selecting one of these outstanding stereo cartridges with either Garrard Type "A," AT-6 or Autoslim record changer.

### CARTRIDGES PURCHASED SEPARATELY

| Stock No. | Model           | NET   |
|-----------|-----------------|-------|
| 89 RC 225 | Knight KN-500X  | 17.95 |
| 79 RC 242 | Shure M7D       | 23.52 |
| 89 RC 291 | Pickering 380-C | 29.85 |
| 89 RC 273 | Empire 108      | 35.00 |



Smooth,  
Silent  
Action

Professional-Quality, 6-lb.  
Balanced Turntable with  
Deluxe Pickup Arm and  
Precision Mechanism

### DELUXE TYPE "A" AUTOMATIC TURNTABLE

**\$79.50**

LESS CARTRIDGE  
SEE COMBINATION  
OFFER BELOW

The Laboratory Series Type "A" Automatic Turntable provides the convenience of the automatic record changer with the superb performance of the professional turntable. This precision unit employs a full-size, dynamically balanced, cast and polished 6-lb. turntable. Unique 2-piece table incorporates a special foam disc for excellent damping of noise and vibration. Laboratory balanced motor provides quiet, on-speed operation regardless of load or voltage changes. Plays all speeds—16 $\frac{3}{4}$ , 33 $\frac{1}{4}$ , 45, 78 rpm. Precision tone arm counterweighted for dynamic balancing; tracking easily set—calibrated scale shows pressure. Velvet-smooth changer mechanism is exclusive Garrard pusher-type. Special mount permits installation without tools. In fawn and white with metal trim. Mtg.: 16" W, 13 $\frac{1}{4}$ " D (includes 1 $\frac{1}{2}$ " arm overhang at rear and right), 2 $\frac{3}{4}$ " below, 6" above motor board. Less 45 rpm spindle, base and cartridge (see offer below). For 110-130 v., 60 cycle AC. Shpg. wt., 19 lbs.

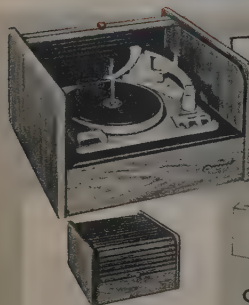
89 RX 716. No Money Down. NET.....**79.50**

### CHANGER-CARTRIDGE COMBINATION OFFER

Garrard Type A plus the stereo cartridge of your choice for only 1c more than the price of changer alone! Specify choice of Knight KN-500X, Shure M7D, Pickering 380-C, or Empire 108. Shpg. wt., 19 lbs.

20 RX 204-2. Specify Cartridge. BOTH FOR ONLY.....**79.51**

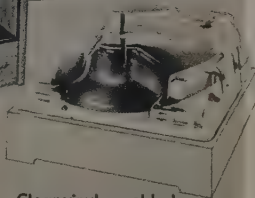
## Garrard Table-Top Cabinets and Changer Dust Covers



With roll-up  
Tambour door

**NEW!**

Table-Top  
Cabinet



Clear vinyl—molded  
for specific Garrard  
changers

### TABLE-TOP CABINETS

Elegant walnut cabinet makes a distinctive home for changers set atop tables, shelves and cabinets—effectively protects against dust, too. Sturdily constructed of stain and scuff-resistant formica, finished in rich walnut. Functional design permits you to play records with smooth-running tambour door open or closed. Supplied with mounting board cut to accommodate changer to be installed in cabinet. Size, 10 $\frac{1}{4}$ x10x15 $\frac{1}{2}$ ". Shpg. wt., 15 lbs.

89 RX 686. Type TM-1. For Type A and 88 Series. NET.....**34.50**

89 RX 687. Type TM-2. For 210, AT-6 and Autoslim. NET.....**34.50**

89 RX 688. Type TM-3. For Any Other Garrard Model or Units Made by Other Manufacturers. Supplied with "blank" mounting board that accommodates most changers or turntables. NET.....**34.50**

### MOLDED VINYL DUST COVERS

Protect your changer with this lightweight, easy-to-clean cover. Extremely useful accessory for home music systems with Garrard record changers. Keeps changers free of harmful dust and lint. Attractive, transparent vinyl cover slips over changer—installs in just a few seconds. Vinyl is specifically molded to fit the individual Garrard changer—not interchangeable. Shpg. wt., 1 $\frac{1}{2}$  lbs.

89 RX 675. Model DC-3. For Type A. NET.....**4.95**

89 RX 689. Model DC-4. For AT6. NET.....**4.95**

89 RX 690. Model DC-5. For Autoslim. NET.....**4.95**

Allied Has the World's Largest Selection of Stereo Hi-Fi Components



# OF AUTOMATIC TURNTABLES

The Type A and the AT-6 combine a deluxe turntable and pickup arm with a precision-made changing mechanism. The Type A is a larger unit with more deluxe features. The economy Model AT-6 is excellent for limited space installations.

# Garrard

MADE IN  
GREAT BRITAIN



AT-6  
Automatic  
Turntable



The New  
Autoslim

## MODEL AT-6 AUTOMATIC TURNTABLE

**\$54.50**

LESS CARTRIDGE  
SEE COMBINATION  
OFFER BELOW

Moderately priced automatic turntable designed for those who want the professional features of a turntable and convenience of a record changer. Offering an entirely new Garrard exterior design emphasizing clean, crisp professional lines, the AT-6 includes a host of outstanding features for exceptionally reliable performance. Oversize turntable assures perfect balance, silent operation and accurate speed. Includes interchangeable spindles: long spindle for automatic changing; short spindle for single play. Dynamically counterbalanced tubular tone arm has adjustable counterweight. Gram scale built into arm allows setting precise tracking weight without the need of a pressure gauge. Quiet, smooth-running 4-pole motor. Separate controls for manual and automatic operation. Styled in fawn, white and lustrous metal. 4 1/2 x 15 3/4 x 13"; requires 2 3/4" below mtg. board, 1 1/2" to right and rear of arm. Less 45 rpm spindle, base and cartridge (see combination offer below). For 100-130 v., 60 cycle AC. Shpg. wt., 12 lbs.

89 RX 739. No Money Down. NET..... **54.50**

## AUTOSLIM RECORD CHANGER

**\$39.50**

LESS CARTRIDGE  
SEE COMBINATION  
OFFER BELOW

Fine-performing changer for budget-sparing music systems. Features completely separate manual and automatic controls; center changing mechanism that gently handles your records; and one-piece die-cast pickup arm for non-resonance and rigidity. Intermixes all size records in any sequence. Among its other highlights are complementing turntable and 4-pole shaded motor that provide ideal combination of torque, balance and quiet turning. Keeps turntable running at constant speed. Equipped with pickup arm clip that locks arm in rest position. Compact, and exceptionally functional, the Autoslim is only 6 1/4" high; excellent for limited space installations. Spring mounts provide isolation from external shock and vibrations. Overall size, 6 1/4" high, 13 3/4" wide and 12 1/2" deep. Requires 4 1/2" above and 2 3/4" below motor board. Styled in fawn and white, motor board is edged with contrasting white trim. Less 45 rpm spindle, base and cartridge (see combination offer below). For 110-130 volts, 60 cycle AC. Shpg. wt., 9 lbs.

89 RX 740. No Money Down. NET..... **39.50**

## CHANGER-CARTRIDGE COMBINATION OFFER

Model AT-6 plus the stereo cartridge of your choice for only 1c more than the price of the changer alone! Specify choice of Knight KN-500X, Shure M7D, Pickering 380-C or Empire 108. Shpg. wt., 12 lbs.

20 RX 224-2. Specify Cartridge. BOTH FOR ONLY. **54.51**

## CHANGER-CARTRIDGE COMBINATION OFFER

Autoslim plus the stereo cartridge of your choice for only 1c more than the price of the changer alone! Specify choice of Knight KN-500X, Shure M7D, Pickering 380-C or Empire 108. Shpg. wt., 9 lbs.

20 RX 225-2. Specify Cartridge. BOTH FOR ONLY. **39.51**

## Garrard Accessories

WOOD BASES. In mahogany, limed oak or walnut finish. 4 lbs.

89 RX 662C. For Type A. Specify finish. NET..... **4.49**

89 RX 691C. For AT-6 and Autoslim. Specify finish. NET..... **4.49**

89 RX 602C. For T/MK-II. Specify finish. NET..... **4.49**

EXTRA PLUG-IN HEADS. Accommodate all standard cartridges. 6 oz.

89 R 569. For Type A. NET..... **1.50**

89 R 907. For AT-6. NET..... **1.50**

89 R 563. For T/MK-II. NET..... **1.50**

CARTRIDGE MOUNTING BRACKET. For AT-6 and Autoslim. 6 oz.

89 R 908. NET..... **40 c**

UNFINISHED MOUNTING BOARDS. Specially pre-cut and pre-drilled for custom-installing Garrard changers and manual player. 1 1/2 lbs.

89 RX 663. For Type A. NET..... **1.50**

89 RX 693. For AT-6 and Autoslim. NET..... **1.50**

94 RX 956. For T/MK-II. NET..... **1.50**

RA-7 7" RECORD ADAPTER FOR TYPE A. Clips on to pusher platform, to play 7", 33 1/3-rpm small-hole records. Shpg. wt., 10 oz.

89 R 909. NET..... **1.50**

45-RPM AUTOMATIC SPINDLES. Av. shpg. wt., 10 oz.

95 R 664. For Type A. NET..... **3.80**

94 R 535. For AT-6 and Autoslim. NET..... **3.80**

## Model T/MK-II Manual Player

- Ultra-Compact Player
- Die-Cast Tone Arm
- True-Turret Drive
- Interchangeable Plug-in Shell



Plays records up to 12" at all speeds—16 2/3, 33 1/3, 45 and 78 rpm. Wired for stereo and monophonic use. Features heavy, rubber-padded steel turntable for rumble-free reproduction. Arm tracks with high accuracy—has safety arm-rest. Spring mounts for easy leveling and freedom from vibration. 4-pole motor and beltless idler-wheel drive mechanism. Turntable starts when arm is lifted—shuts off at end of record. Mounting space: 14 3/4" W, 12 1/2" D, 3" above, 2 3/4" below mtg. board. With plug-in head; less cartridge. For 100-130 v., 60 cycle AC. Shpg. wt., 14 lbs.

89 RX 506. No Money Down. NET..... **32.50**

See Our Extensive Listings of Stereophonic Records

## Stereo High-Fidelity Diskchangers

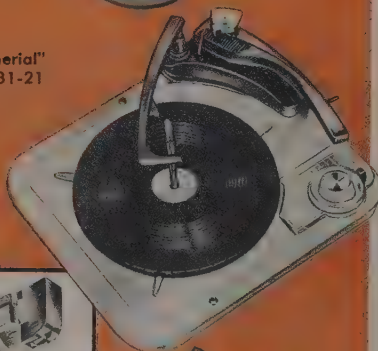


### 1041-50 4-SPEED CHANGER

NET  
**\$2739**  
**NO MONEY DOWN**  
 Economy diskchanger wired to play stereo and monophonic records at any of four speeds—16 $\frac{1}{2}$ , 33 $\frac{1}{3}$ , 45 and 78 rpm. Unit comes equipped with ceramic turnover stereo cartridge. Cartridge has .0007" sapphire stylus for LP's and .003" sapphire stylus for 78's. Other features include: smooth-running 2-pole motor; extra-long turntable bearing; automatic shutoff after last record; and 8" rubber-matted turntable. 10" and 12" records may be intermixed in any sequence. Exclusive "rumble ribs" absorb vibrations—eliminate rumble. Balanced pick-up arm may be adjusted for any stylus pressure. Changer is complete with metal plate in harmonizing beige and brown. Mounting space: 14 $\frac{1}{16}$ " wide, 13 $\frac{1}{2}$ " deep, 5 $\frac{1}{2}$ " above and 4" below mounting board. Two 36" cables supplied for convenient connection to stereo amplifier. Less base, listed below. For operation from 110-120 v., 60 cycle AC. Wt., 10 $\frac{1}{2}$  lbs.  
 89 RX 711. No Money Down. NET.....27.39

MODEL 1041-51 DISKCHANGER. Same as above, but has .0007" diamond stylus and .003" sapphire stylus. Shpg. wt., 10 $\frac{1}{2}$  lbs.  
 89 RX 712. No Money Down. NET.....30.83

"Imperial"  
 1031-21



Shure M7D  
 Plug-in Head

NET  
**\$6571**  
**NO MONEY DOWN**  
 "IMPERIAL" 1031-21 WITH SHURE M7D CARTRIDGE  
 Deluxe quality 4-speed record changer combined with a deluxe stereo magnetic cartridge for top listening enjoyment. Features precision workmanship, ultra-convenient operation and distinctive styling. An excellent choice for moderately priced high fidelity systems—ideal for replacement purposes. Among its many deluxe features is the specially designed 4-pole, 4-coil motor that provides smooth, hum-free operation. Exclusive "rumble-ribs" absorb annoying vibrations. Automatic intermix of 10 and 12" records at the 33 $\frac{1}{3}$ -rpm speed. Extra-long turntable bearing reduces rumble and wow. Automatic motor shutoff after last record has played. Famous Shure M7D "Custom Dynetic" cartridge has .0007" diamond stylus; features exceptionally high compliance. Separation is better than 20 db at 1000 cps.

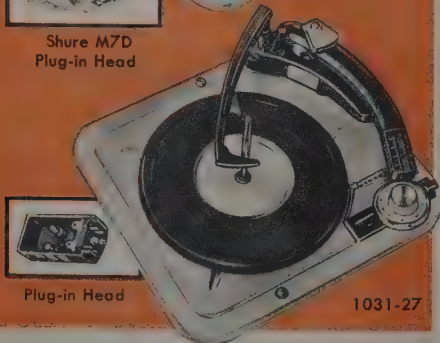
One-piece pickup arm has top-mounted counter-balance that provides accurate weight adjustment. Convenient arm handle permits precise needle set-down during manual operation. Has 9" rubber-matted turntable; special "torsion spring" action allows moving arm at any time without damaging changer. Attractive golden brown and beige finish. Mounting space: 14 $\frac{1}{16}$ " wide, 13 $\frac{1}{2}$ " deep; 5 $\frac{1}{2}$ " above, 4" below mounting board. Complete with two 36" phono cables, AC cord and plug, and Shure M7D cartridge. Less base, listed below. For 110-120 v., 60 cycle AC. Shpg. wt., 12 lbs.  
 89 RX 574. No Money Down. NET.....65.71

MODEL 1031-1 DISKCHANGER. Same as above, but with Sonotone ceramic turnover cartridge—.0007" diamond stylus for stereo and monophonic LP's; .003" sapphire stylus for 78's. Shpg. wt., 12 lbs.  
 89 RX 583. No Money Down. NET.....59.22

### 1031-27 CHANGER WITH PLUG-IN HEAD

NET  
**\$4839**  
**NO MONEY DOWN**  
 Identical to Model 1031-21 "Imperial" changer above, but less Shure M7D cartridge. Supplied with two empty plug-in heads that accommodate virtually any stereo and monophonic cartridges having standard  $\frac{1}{4}$ " mounting centers. Plug-in heads have  $\frac{7}{16}$ " spacing from rear of head to mounting holes;  $\frac{1}{2}$ " from front of head to mounting holes. 1" connecting wires are pre-soldered to ridge hook-up. (See cartridge listings elsewhere in this section of catalog.) For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 12 lbs.  
 89 RX 575. No Money Down. NET.....48.39

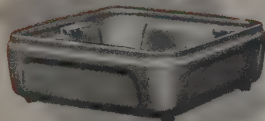
EXTRA PLUG-IN HEAD FOR USE WITH 1031-27 DISKCHANGER. Same as units supplied with 1031-27, above. Accommodate standard stereo and monophonic cartridges. Less cartridge. Shpg. wt., 6 oz.  
 89 R 562. NET.....1.57



Plug-in Head

1031-27

## ACCESSORIES FOR WEBCOR DISKCHANGERS



A1937T METAL BASE. Attractive, brown-finished unit fits all Webcor changers listed on this page only. Wt., 4 lbs.  
 89 RX 639. NET.....5.68

PRE-CUT MOUNTING BOARD. Heavy plywood board for custom-installing all Webcor changers on this page only. Unfinished; has pre-drilled holes. Overall size, 15 $\frac{1}{4}$ "x13 $\frac{1}{4}$ "x $\frac{1}{2}$ ". Shpg. wt., 3 lbs.  
 89 RX 640. NET.....1.96

AUTOMATIC 45-RPM SPINDLE. Automatically changes 45-rpm records without the need for spindle adapters in each record. Slips over spindle. Shpg. wt., 8 oz.  
 89 R 552. NET.....2.94

45-RPM INSERTS. Lightweight metal "spider" inserts, easily snapped into place in large center hole of 45-rpm records. Package of 10. Shpg. wt., 6 oz.  
 96 R 471. NET PER PACKAGE.....46c



# Allied Exclusive Hi-Fi Components

## LOW-COST Manual Player

Plays all 4 speeds—features famous Garrard mechanism for top performance.

Save on Combination Offers at Right



Available only at Allied, this low-cost manual player features a precision-built Garrard mechanism for exceptionally quiet, smooth operation. Plays stereo and monophonic records at all 4 speeds—16 $\frac{2}{3}$ , 33 $\frac{1}{3}$ , 45 and 78 rpm. Includes convenient automatic start and stop. Simply move the pickup arm to start the turntable; unit automatically shuts off upon completion of the record. Compact, easy-to-install player measures 14 $\frac{1}{2}$  x 12 $\frac{1}{2}$ "; requires 3" above and 2 $\frac{1}{16}$ " below mounting board. Supplied complete with universal plug-in head that accommodates all standard cartridges; line cord with plug; and output cables. Less base, below, and cartridge (see combination offers at right). For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 13 lbs.

35 DX 727. No Money Down. NET.....24.95

### ACCESSORIES FOR MANUAL PLAYER

WOOD BASE. Specify choice of mahogany, blonde or walnut furniture veneer. Shpg. wt., 4 lbs.

35 DX 728C. NET.....4.49

UNFINISHED MOUNTING BOARD. For custom installing player in your own cabinet. Shpg. wt., 1 $\frac{1}{2}$  lbs.

35 DX 729. NET.....1.50

ADDITIONAL PLUG-IN HEAD. Shpg. wt., 3 oz.

89 R 563. NET.....1.50

## LINCOLN L-250 SPEAKER SYSTEM

WITH ELECTRO-VOICE LS-8 8" HI-FI SPEAKER INSTALLED. Excellent value in a compact, shelf-type speaker system. All-wood cabinet is beautifully styled, expertly crafted and handsomely finished. Includes E-V LS-8 speaker installed. Speaker has smooth frequency response from 55,000 cps; mechanical crossover at 6000 cps; and capacity of 50 watts, program material. Enclosure is constructed of solid,  $\frac{1}{2}$ " wood paneling for clear, vibration-free reproduction. Size, 10x20x9". Available in mahogany, lined oak or walnut—specify choice when ordering. Imp., 8 ohms. Shpg. wt., 21 lbs.

20 SA 227C-2. Specify Finish. No Money Down. NET.....29.95

ENCLOSURE ONLY. As above, less speaker. Specify choice of mahogany, lined oak or walnut. Shpg. wt., 16 lbs.

70 DU 118C. Specify Finish. NET.....17.95

## LINCOLN L-150 SPEAKER SYSTEM

WITH KNIGHT KN-809 8" HI-FI SPEAKER INSTALLED. Shelf-size, neatly styled speaker system with vented port for excellent low-frequency response. Has popular Knight KN-809 speaker installed for wide-range reproduction. Speaker has frequency response of 50-12,000 cps; power handling capacity of 12 watts program material; and  $\frac{1}{2}$ -lb. magnet.

Fiberglass acoustic lining;  $\frac{1}{2}$ " wood panel construction. Fabric-covered in choice of mahogany, blonde or walnut—specify choice. Size, 10x20x9". Imp., 8 ohms. Shpg. wt., 18 lbs.

20 SA 226C-2. Specify Finish. NET.....18.95

ENCLOSURE ONLY. As above, less speaker. Specify choice of mahogany, blonde or walnut. Shpg. wt., 13 lbs.

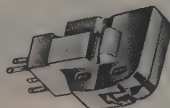
35 DU 730C. Specify Finish. NET.....11.95

## LINCOLN L-100 EXTENSION SPEAKER SYSTEM

A sensational value at this exceptionally low price, the L-100 is perfect for extension use. Brings music to any room in your home—kitchen, den, patio, basement workshop, garage, etc. Ready to use, it's supplied complete with a 25-ft. extension cable terminating in handy alligator clips—can be quickly connected to hi-fi system, phonograph, console radio or TV. Handy level control allows you to regulate volume at the speaker. Made of sturdy masonite panels. Size, 8x12x6". Employs full-sounding 5x7" speaker. Includes smartly styled cane grille cloth and handsome wood-grained walnut finish on all four sides. Includes helpful instructions on proper installation. Impedance, 8 ohms. Shpg. wt., 5 lbs.

79 DX 337. NET.....8.95

## SPECIAL COMBINATION OFFERS



SHURE M7D

SAVE \$16.52

Manual player with Shure M7D cartridge installed. .0007" diamond needle. Shpg. wt., 13 lbs.

20 DX 228-2. ONLY.....31.95

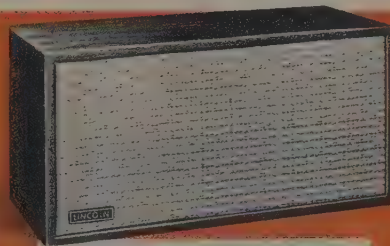


SONOTONE 9T

SAVE \$6.47

Player with Sonotone 9T cartridge. .0007" diamond and .003 sapphire styli. Wt., 13 lbs.

20 DX 229-2. ONLY.....29.95



L-250 SYSTEM



Includes Electro-Voice LS-8 hi-fi speaker in shelf enclosure.

L-150 SYSTEM

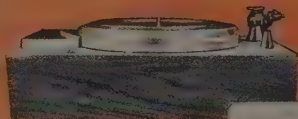
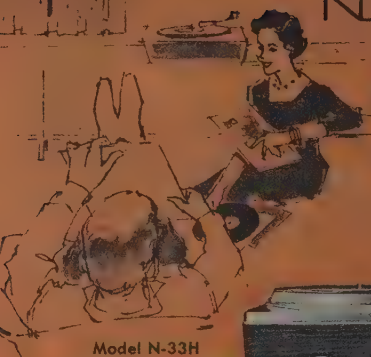


Knight KN-809 8" speaker in shelf enclosure.



# REK·O·KUT

# Stereotables



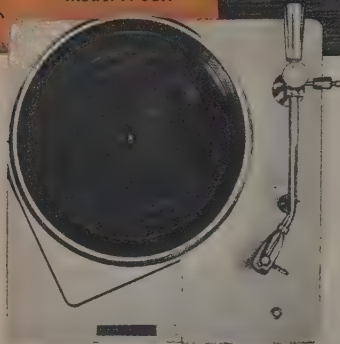
Outstanding  
Stereo  
Performance

Model NL-33H

LESS ARM  
AND BASE



Model N-33H



## MODELS N-33H AND NL-33H SINGLE-SPEED STEREOTABLES

NET  
**\$79.95**

MODEL N-33H. A precision-built 33 $\frac{1}{3}$  rpm, 12" turntable combining high-quality design and smart new-look styling. Designed to provide outstanding performance in any home music system, the N-33H features a hysteresis-synchronous motor and belt drive for reliable, constant speed operation. The latest in design techniques have been combined in this unit to satisfy the most critical of audio connoisseurs.

Turntable is cast of special aluminum alloys developed to reduce resonance to an unparalleled minimum. It is lathe-turned, precision-machined and dynamically balanced. Shaft is mirror-polished and hand-lapped in the bearing well for a perfect fit. Turntable is bearing supported for virtually friction-free rotation.

A hysteresis-synchronous motor—teamed with the exclusive cushion-soft Rekothane adjustable drive belt—provides unvarying speed under any voltage changes. Sealed life-long motor bearings assure trouble-free performance. Turntable-coasting is minimized through the use of a special motor winding.

Wow and flutter, less than 0.15%; noise level, 57 db below average recording level. Attractive white deck plate is pre-drilled to simplify installation of pickup arm. Turntable includes ribbed rubber mat. Less base and arm, see facing page. Size: 15 $\frac{1}{4}$  x 15 $\frac{1}{4}$ ". Requires 4 $\frac{1}{2}$ " below mounting deck. For 110-120 volt, 60 cycle AC. Shpg. wt., 17 lbs.

89 RX 535. No Money Down. NET 79.95

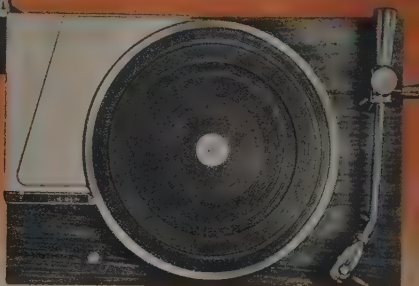
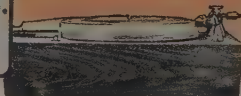
89 RX 732. Model NL-33H. As above, but rectangular—12 $\frac{1}{4}$  x 19". NET.....79.95

NO MONEY DOWN



Decorator  
Styling

Less Arm and Base



## MODELS B-12H AND B-12GH 3-SPEED STEREOTABLES

NET  
**\$139.95**

MODEL B-12H. 3-speed turntable (78, 45, 33 $\frac{1}{3}$  rpm), engineered for the broadcast studio, and for the dedicated audiophile. Features a massive, custom-built hysteresis-synchronous motor for unparalleled rotation accuracy under heavy-duty, continuous operating conditions. Heavy, precision-machined turntable cast from special aluminum alloys selected for resonance-damping qualities. Combination of high-torque motor, heavy turntable, one knob speed selecting, and rubber turntable mat promotes easier cueing.

Noise level, 57 db below average recording level; wow and flutter, less than 0.12%. Turntable idler disengages in Off position. Neon indicator light. With 45 rpm built-in adapter. Size: 17 $\frac{3}{4}$  x 16". Requires 6 $\frac{1}{4}$ " below mounting deck. Less arm and base, see facing page. For 110-120 volts, 60 cycle AC. Shpg. wt., 20 lbs.

96 RU 687. No Money Down. NET.....139.95  
MODEL B-12GH. Same as above, but with standard hysteresis motor for home use. Requires 4 $\frac{3}{4}$ " below deck. Shpg. wt., 18 lbs.  
89 RU 534. No Money Down. NET.....99.95

## MODELS K-34H AND K-33H 2-SPEED STEREOTABLE KITS

NET  
**\$69.95**

MODEL K-34H. A true professional-type stereotable in kit form! Simple, easy-to-build, inexpensive. Requires no other tool than an ordinary screwdriver. The K-34H stereotable includes all of the features of the factory-assembled N-34H—high quality hysteresis-synchronous motor, 2 speeds (33 $\frac{1}{3}$  and 45 rpm), new dramatic styling—with the savings of building it yourself. Noise level: 57 db below average recording level. Wow and flutter: less than 0.15%. Hysteresis-synchronous motor has life-time lubricated hermetically sealed bearings. Exclusive Rekothane drive belt is adjustable for optimum tension and minimum noise. Heavy, precision-machined cast-aluminum turntable is bearing supported and includes ribbed rubber mat. 16x17 $\frac{3}{4}$ ". Requires 4 $\frac{1}{4}$ " below mounting deck, 3" above mounting deck. Less arm and base, see facing page. For 110-120 volt, 60 cycle AC. Shpg. wt., 16 lbs.

89 RX 728. No Money Down. NET.....69.95  
MODEL K-33H. Similar to above, but 33 $\frac{1}{3}$  rpm speed only. Shpg. wt., 15 lbs.

89 RX 542. No Money Down. NET.....59.95

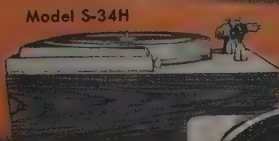


# With Hysteresis-Synchronous Motor

Decorator Styling  
Accurate Rotational Speed  
Trouble-Free Operation



Model N-34H



Model S-34H

## Why a Hysteresis Motor?

High-fidelity music reproduction, free of wow and flutter, demands accurate rotational turntable speed. Hysteresis motors—unaffected by voltage fluctuations—are used in all REK-O-KUT turntables for distortion-free listening.

LESS ARM  
AND BASE

### MODELS N-34H AND S-34H 2-SPEED STEREO TABLES

NET  
\$89.95

**MODEL N-34H.** A new look of beauty in a 12" turntable of surpassing performance and styling with the versatility of two speeds—33½ and 45 rpm. Low-profile design and white deck plate are ideal for modern decor—terraced bookshelves and built-in installations.

The N-34H features highly stable rotational speed through a hysteresis-synchronous motor of latest design—hermetically-sealed lubrication for long-life—special winding to minimize coasting. Precision-machined turntable cast from special resonance-inhibiting aluminum alloys—ball-bearing suspended and rotates on a micro-finish shaft to produce virtually friction-free motion. Rek-O-Kut's unique fashion-soft Rekothane precision drive

belt is adjustable to obtain optimum tension for noise-free operation.

Noise level: 57 db below average recording level; wow and flutter, less than 0.15%. Turntable includes ribbed rubber mat for maximum traction. Less base and arm (listed below). Requires clearance of 4¼" below motor board; size of motor board, 12½x19". For 110-120 volts, 60 cycle AC. Shpg. wt., 17 lbs.  
89 RX 727. NET.....89.95

**MODEL S-34H.** Decorator-styling and high technical performance in a two-speed, 33½ and 45 rpm, turntable. All features and specifications same as N-34H above, but has square motor plate. Size: 15¾x15¾". For 110-120 volt, 60 cycle AC. Wt., 17 lbs. No Money Down.  
89 RX 733. NET.....89.95

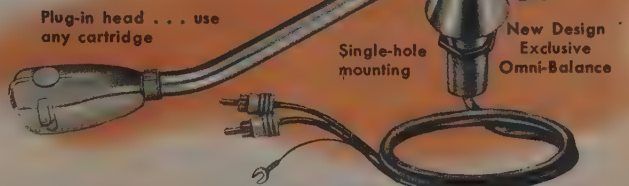


NO MONEY DOWN

## Precision REK-O-KUT Pickup Arms and Accessories

### ADVANCED STEREO ENGINEERING

Perfect balance and tracking—Equalized output from both channels—Leads fully shielded for minimum hum.



### REK-O-KUT PICKUP ARMS

**MODEL S-320 12" PICKUP ARM.** The pickup arm with the new exclusive development—Omni-Balance! Correct lateral balance under all conditions—any cartridge, any record, any speed. In addition, the S-320 includes isolated counter-weight for static balance, micro-adjustment for perfect tracking pressure, plug-in cartridge shell, and 100% shielded pre-wired cables for minimum hum and easy installation. Less cartridge. Wt., 2½ lbs.  
72 RX 759. NET.....34.95

**MODEL AP-320.** Same as Model S-320 above, but includes Auto-Poise described at right. Less cartridge, 4 lbs.  
72 RX 767. NET.....74.95

**MODEL S-260.** 16" studio pickup arm similar to S-320 above, less Omni-Balance. Shpg. wt., 3 lbs.  
72 RX 755. NET.....36.95

**MODEL PS-20L SHELL.** Extra cartridge shell for above arms, less cartridge, 6 oz.  
72 R 756. NET.....5.95

**MODEL APK "AUTO-POISE" AUTOMATIC PICKUP ARM CONVERTER.** Not illus. Press button—turntable starts, arm lifts and sets in groove. On completion of record, arm retracts to rest position and turntable shuts off. For 110-120 v., 60 cycle AC. Shpg. wt., 2 lbs.  
72 R 761. No Money Down. NET 59.95

**MODEL AF-1 "ACOUSTI-MOUNTS."** Not illus. Useful new accessory for Rek-O-Kut Stereotables. Reduces acoustic feedback by isolating Stereotables from sources of external noise. Made of soft rubber. 4 per package, 5 oz.  
72 R 771. NET PER PACKAGE.....3.50

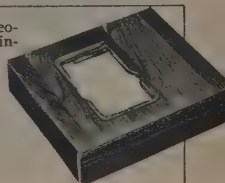
**MODEL OB-1 OMNI-BALANCE.** Improves lateral balance of arm and stereo channel balance—stops groove jumping. Simple to install. Kit includes tool. Shpg. wt., 5 oz.  
72 R 758. NET.....2.95



Have recessed cut-out ledge—merely place Rek-O-Kut Stereotable on ledge. Each base has 4 rubber isolation mounts to insulate it from external vibration. ¼" thick wood.

### REK-O-KUT STEREO TABLE BASES

| Stock No. | Model No.   | For Stereotables            | Lbs. | EACH  |
|-----------|-------------|-----------------------------|------|-------|
| 89 RX 612 | BW-1 Walnut | B-12H, B-12GH, S-34H, N-33H | 8    | 16.95 |
| 89 RX 676 | BN Walnut   | N-34H, NL-33H               | 8    | 14.95 |
| 89 RX 677 | KB Walnut   | K-34H, K-33H                | 8    | 14.95 |



Your Satisfaction Is Guaranteed at Allied

# empire

"Troubador"



## TROUBADOR TURNTABLE AND ARM COMBINATION

NET

**\$165<sup>00</sup>**

**NO MONEY DOWN**

turntable platter and motor. No intermediate idlers. A continuous seamless belt couples heavy-duty hysteresis-synchronous motor to the turntable. Turntable and arm both finished in attractive satin chrome. Completely assembled; less cartridge. Size, 7½x17x15". For 110-120 volts, 60 cycle AC. Shpg. wt., 25 lbs.

89 RZ 744. No Money Down. NET.....165.00

MODEL 208 TURNTABLE ONLY. 14½"x16½"; requires 3¼" below and 2½" above base plate. Shpg. wt., 20 lbs.

89 RX 741. No Money Down. NET.....100.00

89 RX 692. Walnut Base. Shpg. wt., 4 lbs. NET.....15.00

MODEL 98 TRANSCRIPTION ARM. Professional quality 12" arm that achieves virtually perfect balance in all planes to keep stylus in proper position always. Will track even if turntable is turned "upside-down." Adjustment knob regulates stylus pressure—settings from 0-8 grams. In highly attractive satin chrome finish. Less cartridge, with standard plug-in head. Shpg. wt., 3 lbs.

89 R 299. No Money Down. NET.....37.50

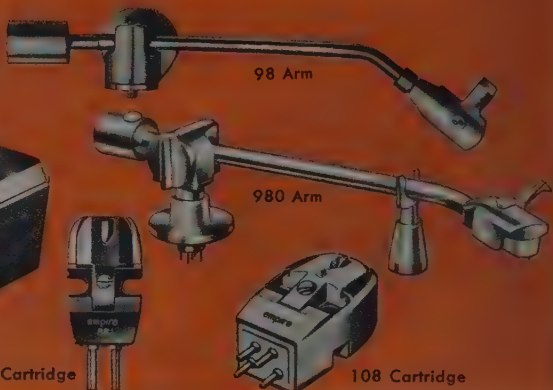
MODEL 98P TRANSCRIPTION ARM. As above, but 16". Shpg. wt., 3 lbs.

72 RX 763. No Money Down. NET.....44.50

EXTRA PLUG-IN HEAD. For either of above arms. Shpg. wt., 3 oz.

89 R 247. NET.....6.50

## Stereo Balanced Hi-Fi Components



MODEL 980 TRANSCRIPTION ARM. Deluxe professional arm with superb specifications. Features perfect dynamic balance—will even track records "upside down." Maximum tracking error, ±0.75°. Arm resonance, 8 cps. Micro ball bearing vertical and lateral friction is virtually unmeasurable. Calibrated stylus pressure control may be set from 0-8 grams. Unit includes overhang adjustment for exact cartridge positioning. Cartridge is mounted in bracket rather than shell; bracket-cartridge assembly is then inserted into arm. Beautifully styled and skillfully crafted of durable aluminum, unit is supplied complete with plug-in socket and 5-wire cable. Less cartridge; with mounting bracket. Shpg. wt., 5 lbs.

72 RX 762. No Money Down. NET.....50.00

72 R 764. Extra Bracket. Shpg. wt., 3 oz. NET.....2.00

MODEL 108 STEREO CARTRIDGE. Moderately-priced deluxe magnetic cartridge featuring exceptionally high compliance. Response, ±2 db, 15-20,000 cps—with usable output up to 30,000 cps. Output, 8.0 millivolts per channel—balanced to within ±1 db. Channel separation, better than 25 db. Vertical and horizontal compliance, 6x 10<sup>-6</sup> cm/dyne. Tracks at as low as 1 gram or as high as 5 grams. With user-replaceable .0007" diamond stylus. Mounts on standard 7/8" and 1½" centers. Shpg. wt., 3 oz.

89 RC 273. No Money Down. NET.....35.00

MODEL S108-7RD .0007" REPLACEMENT DIAMOND STYLUS. 2 oz.

89 RC 282. NET.....18.00

MODEL 88 MOVING MAGNET STEREO CARTRIDGE. Low-cost magnetic cartridge. Frequency response, ±2 db, 20-20,000 cps. Channel separation, over 20 db. Tracks at low as 2 grams; as high as 5 grams. Compliance, 5x10<sup>-6</sup> cm/dyne. Equipped with user-replaceable .0007" diamond stylus. Standard ½" mounting. Shpg. wt., 3 oz.

89 RC 297. No Money Down. NET.....24.50

MODELS88-7RD .0007" REPLACEMENT DIAMOND STYLUS. Shpg. wt., 2 oz.

89 RC 298. NET.....13.00

## BOGEN-PRESTO



B61

Precision-built by skilled Swiss craftsmen. Lightly tracks records.

## Variable Speed Manual Players

AS LOW AS

**\$49<sup>95</sup>**

**NO MONEY DOWN**

- Allows Perfect "Pitch-Tuning"
- Accommodate Records up to 16"
- Silent, Smooth 4-Pole Motor

MODEL B61 TURNTABLE AND ARM. Deluxe, Swiss-made combination. Offers continuously variable speed from 29 to 86 rpm, with settings for 16½, 33½, 45 and 78 rpm speeds. Rubber-covered 7¾-lb. zinc-alloy 12" turntable 4-pole motor; smooth-action arm with micrometer-type gauge for precise stylus pressure adjustment. Arm is raised by linkage to minimize record wear. Size, 15¼x13¼"; requires 2½" above and 2¼" below mounting board. Less base (listed below) and cartridge. For 110-120 v., 60 cycle AC. Shpg. wt., 18 lbs.

89 RU 589. No Money Down. NET.....59.95

MODEL B60. As above, but with 3¾-lb. turntable. Shpg. wt., 14 lbs.

89 RX 913. No Money Down. NET.....49.95

MODEL PB6 WOOD BASE. For above. Walnut finish. Shpg. wt., 5 lbs.

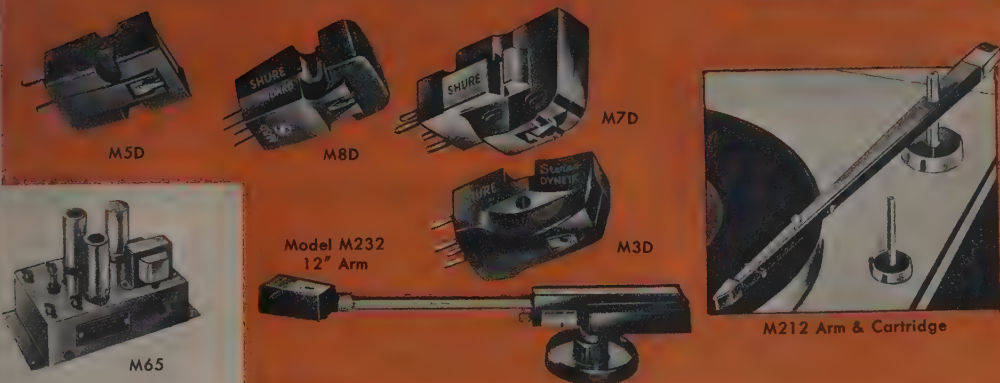
89 RX 905. NET.....5.25

MODEL H4 ALUMINUM PLUG-IN HEAD. For either player. Shpg. wt., 6 oz.

89 R 557. NET.....4.00

Express Shipment Recommended For Hi-Fi Components





**MODEL M7D "CUSTOM" DYNETIC CARTRIDGE WITH N21D STYLUS.** A favorite combination among knowledgeable audiophiles. Includes extremely popular stereo magnetic cartridge with .0007" diamond stylus installed. Cartridge features exceptionally high compliance and low tracking force insuring peak performance. Brings out the best in stereo and monophonic records. Frequency response, 20-20,000 cps. Separation, better than 20 db at 1000 cps. For use in arms capable of tracking at 2½ grams or less. Exceptionally high vertical and lateral compliance, 9.0x10<sup>-6</sup> cm/dyne. Has standard ½" and ⅞" mounting centers. Fits most changers and arms. Stylus is user-replaceable; see far right. Shpg. wt., 3 oz.  
**65 RC 954. No Money Down. NET 36.01**

**MODEL M7D CARTRIDGE WITH N7D STYLUS.** Tracks at 4-7 grams. Compliance, 3.5x10<sup>-6</sup> cm/dyne. Has user-replaceable .0007" diamond stylus. Shpg. wt., 3 oz.  
**79 RC 242. No Money Down. NET 23.52**

**MODEL M8D "STANDARD" DYNETIC CARTRIDGE.** Low-cost stereo magnetic cartridge based on the M7D, above. Recommended for use in record changers. Includes precision-built .0007" diamond stylus. Frequency response, 30-15,000 cps. Tracking force, 5 to 8 grams. Separation better than 20 db at 1000 cps. Vertical and lateral compliance, 3.0x10<sup>-6</sup> cm/dyne. Standard ½" and ⅞" mounting centers. Stylus user-replaceable; see far right. Shpg. wt., 3 oz.  
**89 RC 279. NET 16.17**

**MODEL M3D "PROFESSIONAL" DYNETIC CARTRIDGE WITH N21D STYLUS.** Hand-assembled magnetic stereo cartridge with user-replaceable .0007" diamond stylus. Studio quality—all specifications guaranteed within rigid laboratory tolerances. Includes all the fine features of the M7D/N21D, at left. For use in arms capable of tracking at 2½ grams or less. Shpg. wt., 3 oz.  
**79 RC 403. No Money Down. NET 46.30**

**MODEL M3D CARTRIDGE WITH N3D STYLUS.** User-replaceable .0007" diamond. 3 oz.  
**79 RC 215. No Money Down. NET 44.10**

**MODEL M5D MONOPHONIC CARTRIDGE.** Magnetic cartridge for use with 33½ and 45-rpm microgroove records. User-replaceable .001" diamond stylus. 20-20,000 cps. Compliance, 3x10<sup>-6</sup> cm/dyne. Tracking force, 2 to 6 grams. Wt., 3 oz.  
**79 RC 404. No Money Down. NET 26.95**

**MODEL M232 PROFESSIONAL PICKUP ARM.** Premium-quality, 12" pickup arm. Features precision ball bearings at all pivot points, plug-in head with positive-alignment lock, and variable height adjustment. Tracking force adjustable from 0 to 8 grams 12½" long. Less cartridge. Wt., 2 lbs.  
**89 RX 266. No Money Down. NET 29.35**

**MODEL M236.** As above, but 16", 2½ lbs.  
**89 RX 267. No Money Down. NET 31.31**

**MODEL A23H EXTRA PLUG-IN HEAD.** For above arms. Shpg. wt., 4 oz.  
**89 R 268. NET 2.35**

**MODEL M212 STEREO DYNETIC ARM AND CARTRIDGE.** Tracks stereo recordings at 1½ grams. Response: ±2½ db, 20 to 20,000 cps. Channel Separation: better than 20 db at 1000 cps. Output Voltage: 4.5 mv per channel at 1000 cps. Tracking Force: 1½ to 2½ grams. Vertical and Lateral Compliance: 9x10<sup>-6</sup> cm/dyne. Includes Model M21 stereo cartridge and user-replaceable .0007" diamond stylus. Shpg. wt., 1 lb.  
**89 RC 250. No Money Down. NET 87.71**

**MODEL M216.** As above, but 16" pickup arm. Shpg. wt., 1¼ lbs.  
**89 RC 251. No Money Down. NET 87.71**

**MODEL A30C STEREO CABLE ASSEMBLY.** For installation of either arm above. 6-ft. cable length. Shpg. wt., 3 oz.  
**89 R 269. No Money Down. NET 1.91**

**M65 STEREO CONVERSION PREAMP.** Converts ceramic inputs to magnetic. 6½x3½x3¼". For 110-120 v., 60 cycle AC. Shpg. wt., 2 lbs.  
**79 R 406. No Money Down. NET 23.52**

**DIAMOND REPLACEMENT STYLUS, Wt., 2 oz.**

| Stock No. | Type | For                            | NET   |
|-----------|------|--------------------------------|-------|
| 79 RC 712 | N3D  | M3D                            | 22.05 |
| 79 RC 405 | N5D  | M5D                            | 16.17 |
| 79 RC 713 | N7D  | M7D                            | 11.76 |
| 89 RC 281 | M8D  | M8D                            | 8.08  |
| 89 RC 239 | N21D | M212, M216, M7D/N21D, M3D/N21D | 24.25 |

## Top-Quality Gray Components

**ST-33 TURNTABLE.** 33½-rpm turntable. Features hysteresis-synchronous motor; polyurethane drive belt; and multi-plane shock mounts that isolate motor from mounting plate. Size, 4½x16x14½". Less arm and base. For 110-120 v., 60 cycle AC. Shpg. wt., 16 lbs.  
**89 RX 531. No Money Down. NET 89.50**

**89 RX 634C. Base. Specify Mahogany or Walnut. NET 23.95**

**PK-33 TURNTABLE KIT.** Kit version of above with identical specs, less steel mounting plate. Size, 4½x12¼x12¼". Less arm and base. Complete with easy-to-follow instructions. Shpg. wt., 13 lbs.  
**89 RX 730. No Money Down. NET 49.50**

**89 RX 548C. Base. Specify Mahogany or Walnut. NET 17.95**

**MODEL 212-TN 12" PICKUP ARM.** Incorporates "dual viscous damped" (fluid controlled) suspension for superb tracking and faithful reproduction. Only the needle vibrates—not the arm. Tracks from 1½ to 15 grams. Shpg. wt., 3 lbs.  
**89 RX 679. No Money Down. NET 35.50**

**MODEL SAK-12N 12" PICKUP ARM.** Kit version of arm above. All specifications are identical. Shpg. wt., 3 lbs.  
**72 RX 766. No Money Down. NET 28.60**

**SPS EXTRA SLIDE ASSEMBLY.** For either of above. Wt., 2 oz.  
**89 R 559. NET 4.60**



# THORENS

IMPORTED FROM SWITZERLAND



## NEW MODEL TD-121 TURNTABLE

Excellent quality, single-speed 33 $\frac{1}{3}$ -rpm turntable, precisely crafted for top record reproduction. Incorporates heavy cast (non-magnetic), 12", 8-lb. turntable with the unique combination of a belt and idler drive that isolates turntable from annoying motor vibration. Also features adjustable speed control (accuracy,  $\pm 3\%$ ); self-lubricating bronze bearings on main drive shaft; adjustable built-in leveling screws; metal strobe disc; and separate pickup arm board for fast, convenient installation of arm. Always maintains an exceptionally low noise level. Complete with attractive base plate; less base, mounting board (at right) and arm, 15 $\frac{1}{2}$ x12 $\frac{1}{2}$ ", requires 2 $\frac{3}{4}$ " below base plate. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 28 lbs.

89 RX 736. Less Base. NET. .... 80.00

MODEL TD-124 TURNTABLE. Professional version of TD-121, above. Added features are: built-in level bubble; lighted strobe; 12", 11 $\frac{1}{2}$ -lb. cast iron table with aluminum cover; clutch assembly for instant stops and starts. Less base, mounting board (listed at right) and arm, 15 $\frac{1}{2}$ x12 $\frac{1}{2}$ ", requires 2 $\frac{3}{4}$ " below base plate. Shpg. wt., 32 lbs.

94 RU 722. Less Base. NET. .... 99.75



Model TD-111

## MODEL TD-111 TURNTABLE

Economy-priced 33 $\frac{1}{3}$  rpm turntable. Has heavy cast-iron non-magnetic 12" turntable. Motor is completely isolated from turntable through an idler and belt-drive arrangement. Has self-lubricating bushings on all main drive parts; adjustable speed control ( $\pm 3\%$ ). Less arm, base and mounting board. Requires 3 $\frac{1}{2}$ " below board. For 110-120 v., 60 cycle AC. Wt., 17 lbs.

89 RX 735. Less Base. NET. .... 60.00

MODEL TDK-101. Not illus. Top-value, 33 $\frac{1}{3}$  rpm turntable kit. Easily assembled in one evening with hand tools. 4-pole motor;  $\pm 3\%$  variable speed; strobe disc. Size, 14x12". Requires 3 $\frac{1}{2}$ " below mounting board. Less arm, base and mounting board (below). For operation from 110-120 v., 60 cycle AC. Shpg. wt., 18 lbs.

89 RX 546. Less Base. NET. .... 47.50



Model TD-135

## MODEL TD-135 MANUAL PLAYER

A quality 4-speed manual player with automatic shut-off feature. Uses the same drive as the TD-124 (left)—8 lb. cast-iron, non-magnetic 12" turntable. A remarkable value for the budget-minded audiophile. Has adjustable speed drive and features a professional polished, tubular pickup arm with a unique precision offset bearing, adjustable counter-balance, and calibrated independent stylus pressure gauge. Magnetic shielding of main table helps to prevent hum. Plug-in shell will accept all stereo or mono cartridges. Wired for stereo. Metal strobe disc included. Base plate, 15x12"; requires 2 $\frac{3}{4}$ " below mounting board. Less base, mounting board (below) and cartridge. For operation from 110-120 v., or 200-250 v., 50-60 cycle AC. Shpg. wt., 35 lbs.

89 RX 734. Less Base. NET. .... 99.75

## THORENS TURNTABLE ACCESSORIES

\*Specify mahogany or walnut.

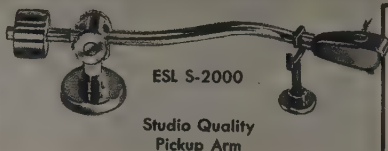
| Stock No.  | For             | Description               | Wt.    | NET   |
|------------|-----------------|---------------------------|--------|-------|
| 89 RX 630C | TD-124, TD-121  | Wood base*                | 5 lbs. | 10.00 |
| 89 RX 623C | TD-111, TDK-101 | Wood base*                | 5 lbs. | 10.00 |
| 89 RX 631C | TD-135          | Wood base*                | 5 lbs. | 7.00  |
| 93 RX 487  | TD-124, TD-121  | Unfinished mounting board | 3 lbs. | 4.50  |
| 93 RX 338  | TD-135          | Unfinished mounting board | 3 lbs. | 4.50  |
| 89 RX 633  | TD-111, TDK-101 | Unfinished mounting board | 3 lbs. | 4.50  |



## ESL TURNTABLE PACKAGE

New 4-speed turntable package—a combination of components designed to offer the audiophile a professional quality turntable at a saving. Incorporated in the simplicity of design are the following outstanding features: ESL-2000 super Gyro/Balance pickup arm; the new Red-Head ceramic stereo cartridge for superior reproduction; and the new T-200 belt-driven turntable. Less base, right. For operation from 110-120 v., 60 cycle AC. Size, 14x11 $\frac{1}{4}$ x4". Requires 3" below mounting board. Wt., 18 lbs.

89 RX 737. No Money Down. NET 99.50



ESL S-2000

Studio Quality  
Pickup Arm



ESL Red-Head  
Cartridge

## ESL T-200 12" TURNTABLE

New 4-speed turntable designed to provide quality reproduction for the economy-minded audio enthusiast. Beneath the simplicity of its lines are rugged professional features: constructed to virtually eliminate wow and flutter; cast aluminum, four-pound turntable, dynamically balanced—designed to distribute as much weight as possible to the outside edge. Turntable shaft rests on a ball-thrust bearing and turns against graphite support bearings. Has all steel frame. Constant-speed, 4-pole motor and belt-drive arrangement assure precise, vibration-free operation. Less arm and base. Size, 4 $\frac{1}{2}$ x14x11 $\frac{1}{4}$ ". Requires 3" below mounting board. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 10 lbs.

89 RX 738. No Money Down. NET 49.95

TURNTABLE BASE. Walnut. Wt., 6 lbs.  
89 RX 685. NET. .... 9.95

## ESL MODEL S-2000 PICKUP ARM

A super Gyro/Balance pickup arm for use with any standard stereo or mono cartridge. Features: stylus force adjustment clearly calibrated in grams; extremely short overall length enables mounting in restricted spaces; height of arm and arm rest are adjustable for all turntables; large plug-in shell accepts all standard cartridges and exposes front of cartridge for accurate cuing; tracking forces of 1 to 1 $\frac{1}{2}$  grams with high-quality cartridges. The S2000 arm will actually play records at any angle up to 90°—eliminating the necessity of having a perfectly level turntable. The smooth, fluid action of this arm assures excellent tracking. Complete with audio cables. Less cartridge. Shpg. wt., 2 lbs.

72 RX 757. NET. .... 34.95

EXTRA ALUMINUM PLUG-IN HEAD. Wt., 2 oz.  
72 R 765. NET. .... 5.50

## ESL "RED HEAD" STEREO CARTRIDGE

20,000 cps. Channel separation, 20 db. Output,  $\frac{1}{4}$  volt rms. Excellent compliance. Standard mounting  $\frac{1}{4}$ " centers. Has user replaceable .7 mil diamond stylus. Isolated 4-terminal output. Wt., 4 oz.

89 RC 926. NET. .... 14.95

RED HEAD REPLACEABLE STYLUS. .7 mil diamond stylus. Shpg. wt., 2 oz.

89 RC 927. NET. .... 10.00

**ALLIED'S CREDIT FUND PLAN  
NO MONEY DOWN**

Now, you may have the music system of your choice with no money down. Up to 24 months to pay on Allied's new Credit Fund Plan.

New ESL ceramic cartridge designed to offer the audiophile superior reproduction of stereo or monophonic records. Structural ruggedness has been maintained for owners of record changers where more pronounced downward force is needed to trip mechanisms. "Red Head" cartridges are practically immune to magnetic induced hum. Recommended tracking force is 3 to 4 grams. Frequency response,  $\pm 2$  db, 20-





**OUTSTANDING STEREO CARTRIDGES**



**381E**

# Arms and Cartridges by Leading Manufacturers

**MODEL 380C STEREO CARTRIDGE**  
 Hermetically sealed and completely encapsulated in a mu-metal shield, the 380C is designed to provide hum-free operation in automatic record changers or manual players. "V-Guard" stylus assembly permits quick and easy user-replacement of .0007" diamond stylus (included). **Frequency Response:**  $\pm 2$  db, 20-15,000 cps. **Channel Separation:** 35 db. **Output:** 2½ millivolts. **Recommended tracking force:** 4 to 7 grams. Fits all standard pickup arms—has ⅞" and ½" mounting centers. Shpg. wt., 2 oz.  
**89 RC 291. No Money Down. NET 29.85**  
**MODEL 380A.** As above, but for turntables. **Recommended tracking force:** 2 to 5 grams. Shpg. wt., 2 oz.  
**89 RC 292. No Money Down. NET 34.50**

**MODEL STEREO "90" CARTRIDGE**  
 This cartridge has been engineered to provide a high level of performance at a price unusually low. Has the easily replaceable "T-Guard" stylus assembly, with .0007" diamond stylus. 1.3 millivolts output per channel. **Frequency Response:** Smooth from 20-12,000 cps. **Channel Separation:** 20 db. **Recommended Tracking Force:** 4 to 7 grams. ½" mtg. centers. Shpg. wt., 2 oz.  
**89 RC 275. NET 16.50**

**MODEL 370-1D.** A fine magnetic monophonic pickup for the audiophile. Uniquely designed to provide maximum performance from mono recordings. Has "T" Guard stylus assembly with .001" diamond stylus. Shpg. wt., 2 oz.  
**89 RC 236. NET 29.85**

**MODEL 381E STEREO PACKAGE**  
 An ultra linear professional pickup designed to meet the most exacting requirements in radio stations, recording studios, and in quality music systems. For use in professional pick-up arms where tracking force will not exceed 4 grams. Has "V-Guard" replaceable stylus assembly. **Frequency Response:**  $\pm 1$  db, 20-10,000 cycles,  $\pm 2$  db, 20-17,000 cycles. **Output:** 1 mv/cm of recorded level. **Channel Separation:** 35 db. Package includes 1—381A Cartridge with stereo stylus and 2 extra styli: 1—.001" diamond stylus, and 1—.0027" sapphire stylus. 6 oz.  
**89 RC 925. No Money Down. NET 60.00**

**MODEL 381A.** Cartridge above without extra stylus assemblies. Shpg. wt., 2 oz.  
**89 RC 274. No Money Down. NET 48.00**

## DIAMOND REPLACEMENT STYLUS

All are .0007" except \*.001". Shpg. wt., 2 oz.

| Stock No. | Mfr's Type | For                        | NET EACH |
|-----------|------------|----------------------------|----------|
| 89 RC 244 | D-3807C    | 380C                       | 15.00    |
| 89 RC 245 | D-3807A    | 380A, 381A, 198, 199, 381E | 19.65    |
| 89 RC 277 | D-9007     | 90                         | 9.90     |
| 94 RC 734 | D-3707C    | 371                        | 12.00    |
| 99 RC 849 | D-3510     | *370-1D                    | 18.00    |



**Model 198 "UNIPOSE" STEREO PICKUP ARM**  
 Arm-Cartridge Combination

**Model 198 "UNIPOSE" STEREO PICKUP ARM**  
 An integrated arm and cartridge combining the top-rated UniPOSE arm and the famous 380A cartridge. Features a single friction-free pivot which permits tracking of records at minimum stylus pressure. Shpg. wt., 3 lbs.  
**89 RC 278. No Money Down. NET 54.00**  
**89 RC 924.** Similar to above, but with the 381A cartridge, 3 lbs. NET..... **67.50**



**PICKUP ARM.** Skillfully-designed one-piece 12" balanced arm. Constructed of non-resonant, hand-rubbed, gun stock walnut with precision aluminum fittings. Overhang micrometer adjustment,  $\pm 1/16"$ . **Tracking error:**  $\pm 0.8\%$ . **Tracking force adjustment** to 0.1 gram for maximum accuracy. Less cartridge below. Has four leads. Wt., 1½ lbs.  
**89 RX 249. NET 39.50**

**LAB SERIES CARTRIDGE.** A lab standard moving coil cartridge, assembled and calibrated one unit at a time. Provides the utmost quality from your stereo records with extremely low distortion. Designed for broadcast and recording applications where excellent quality is important. **Frequency Response:**  $\pm 1$  db, 10-30,000 cps. **Output:** 6 mv @ 10 cmv. **Channel Separation:** 30 db. Factory replaceable .0007" diamond stylus. Shpg. wt., 3 oz.  
**89 RC 931. NET 49.50**

**CLASSIC SERIES.** Same as above, but response is  $\pm 1$  db, 15-28,000. Shpg. wt., 3 oz.  
**89 RC 932. NET 37.50**

**SENATOR SERIES.** Economy-priced unit with high output, 9 mv output. **Response,**  $\pm 1.5$  db, 18-24,000 cps. 4 output terminals. **Channel Separation,** 20 db. 2 oz.  
**89 RC 933. NET 24.95**



**ADC-1 STEREO CARTRIDGE**  
 A precision-engineered stereo cartridge designed to be used in professional pickup arms—tracking at less than 1 gram with high lateral and vertical compliance. Mounts on standard ½ or ⅞" centers. **Output:** 1 mv per channel.  $\pm 2$  db, 10-20,000 cps. **Tracking force:** .75 to 1.5 grams in professional arms. Wt., 8 oz.  
**89 RC 922. NET 49.50**

**ADC-2 STEREO CARTRIDGE.** Same as above except recommended for quality record changers and tone arms. Wt., 8 oz.  
**89 RC 923. NET 37.50**

**REPLACEMENT STYLUS ASSEMBLIES.** For ADC cartridges. Shpg. wt., 2 oz.  
**ADC-R1.** Stylus assembly for ADC-1.  
**89 RC 928. NET 25.00**  
**ADC-R2.** Stylus Assembly for ADC-2.  
**89 RC 929. NET 15.00**



## E-V 31MD-7 CERAMIC CARTRIDGE

An expertly-designed, moderately-priced ceramic stereo cartridge for stereo or monophonic reproduction. Designed for magnetic inputs, the 31MD-7 replaces conventional magnetic cartridges directly. **Tracking force:** 2 to 6 grams. **Frequency Response:**  $\pm 2$  db, 20-15,000 cps. **Output:** 8 mv. Exceptional channel separation—28 db. Includes user



**MODEL 9TSD STEREO CARTRIDGE**  
 Sonotone 9TSD stereo cartridge is an outstanding achievement in ceramic cartridges. Uniquely designed to provide broad channel isolation; full frequency response; and excellent lateral and horizontal compliance. User replaceable stylus assembly features .0007" diamond and .003" sapphire tips. **Output:** 0.3 volt. **Response:** 20-17,000 cps. Has 4 terminals; standard ½" and ⅞" centers. Shpg. wt., 3 oz.  
**68 RC 664. NET 11.47**

**MODEL N-9TSD REPLACEMENT STYLUS.** For above. Has .0007" diamond and .003" sapphire tips. Shpg. wt., 2 oz.  
**68 RC 624. NET 7.35**

**MAGNETIC INPUT ADAPTER.** Permits Model 9TSD to be plugged into magnetic inputs. Shpg. wt., 4 oz.  
**69 RC 213. NET PER PAIR 2.94**

**MODEL D-7 REPLACEMENT STYLUS.** .0007" diamond stylus for above. Wt., 3 oz.  
**89 RC 235. NET 9.70**

# Stereo Headphones for Private Hi-Fi Listening



Attractive and feather-light for thrilling, fatigue-free stereo hi-fi listening

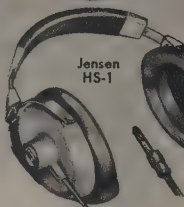
## KNIGHT KN-840 HEADSET

Your key to thrilling adventures in stereo hi-fi listening. Combines superb audio engineering with undistorted, full-range response with aluminum alloy construction for comfortable listening. Provides remarkable sound realism in complete privacy—without disturbing others. Skillful design blocks annoying external noises. Also makes an excellent choice for monitoring while tape recording live performances. Each earcup is a carefully designed hi-fi speaker featuring efficient electro-dynamic driver and hyperbolic baffle. Acoustic mesh in driver cavity for uniform bass response. No "ear-drilling" highs. **Frequency Response:** 20-16,000 cps. Two-way adjustment for perfect fit. For low-impedance outputs: 16 to 600 ohms. 3-ft. cord. Wt., 2 lbs. **35 DX 706. No Money Down. NET 19.95**

KN-841 CHAIRSIDE CONTROL UNIT. For above. Balance, Volume and Stereo-Mono controls. Less cable. Wt., 1 lb. **90 R 874. NET.....5.95**



Complete privacy and wide-range response



Jensen HS-1



Telex HDP-53A

## JENSEN HS-1 HEADSET

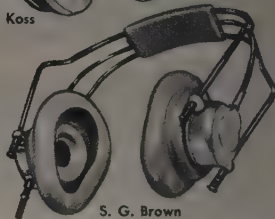
Rugged, lightweight headphones for comfortable stereo or monophonic hi-fi listening. **Response:** 20-15,000 cps. Noise-excluding foam ear cushions are removable for cleaning. High-compliance, curvilinear drivers have moisture-resistant diaphragm. Acoustic rear mesh for uniform bass response. Complete with 8-ft. cord with standard headphone plug plus jack and 4 leads for connecting to amplifier. Imp., 8 ohms per channel. Shpg. wt., 1 1/4 lbs. **59 D 328. No Money Down. NET 24.95**

## TELEX HDP-53A HEADSET

"Dyna-Twin" stereo headphones that provide exceptional depth and direction for exciting stereo realism. **Frequency Response:** 30-15,000 cps. Lightweight set weighs only 12 oz. Foam rubber ear muffs keep music in—external noises out. Dynamic driver element has "Mylar" diaphragm and self-supporting voice coil. 8 ohms. 14 oz. **59 D 327. No Money Down. NET 24.40**



Koss



S. G. Brown

## S. G. BROWN HEADSET

British-made "Super K" stereo headphones featuring natural response that extends from 25-17,000 cps. Each earpiece contains receiver with Alcomax magnet; voice coil wound on conical, bakelized paper diaphragm. Impedance per channel, 52 ohms. Shpg. wt., 1 1/2 lbs. **59 D 298. No Money Down. NET. 32.50**

## KOSS SP-3 HEADSET

Comfortable stereo headphones with 3 1/2" dynamic reproducers in each earphone. **Frequency Response:** 30-15,000 cps. Has 8-ft. cord with connecting terminals. Imp., 8 ohms. Wt., 2 lbs. **59 D 178. No Money Down. NET. 24.45**  
**59 D 189. T-1 Hook-Up Box.** Matching transformers for monitoring 600-10,000-ohm outputs. 2 1/2"x2 1/4". 8 oz. NET.....6.81  
**59 D 188. T-5 Junction Box.** Includes speaker On-Off switch and volume controls. 2 1/2"x2 1/4". Shpg. wt., 8 oz. NET.....7.79

## QUALITY WIRELESS MICROPHONE SYSTEMS

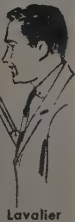
### VEGA



Portable Receiver



"Vegatrol" Control Relay



Lavalier

Hand-Held

Operate on 33.14 mc—Other Frequencies on Special Order

## VEGA DELUXE SYSTEMS

**HAND-HELD SYSTEM.** Transistorized FM wireless microphone operating on a frequency of 33.14 mc; portable receiver with whip antenna; and slip cover. Microphone powered by 1 battery (2 supplied); receiver from 110-120 v., 50-60 cycle AC. Shpg. wt., 20 lbs. **20 RC 183. No Money Down. NET.....499.95**  
**LAVALIER SYSTEM.** As above, with lavalier microphone. **20 RC 182. No Money Down. NET.....499.95**  
**RECEIVER ONLY.** Tunable from 25-45 mc. 9 1/2"x6 1/4"x1 3/4". 19 lbs. **90 RC 768. No Money Down. NET.....267.75**  
**HAND-HELD MICROPHONE ONLY.** 33.14 mc. 1" dia. x 5 3/8" length. With whip antenna and batteries. Shpg. wt., 1 lb. **90 RC 770. No Money Down. NET.....249.75**  
**LAVALIER MICROPHONE ONLY.** 33.14 mc. 1" dia. x 5 1/4" length. With neck cord (antenna) and batteries. Shpg. wt., 1 lb. **90 RC 769. No Money Down. NET.....249.75**  
**"VEGATROL" CONTROL RELAY.** Enables user to turn accessory equipment on and off from switch on mike. 5 1/2"x4 1/4"x7 3/8". 4 lbs. **90 RC 765. No Money Down. NET.....69.90**  
**80 J 728. Battery For Mike.** 1 required. 3 oz. NET EACH.....1.80  
**90 RC 771. Slip Cover For Receiver.** Shpg. wt., 12 oz. NET.....4.95

### SONY

Receiver



Includes Portable Case

Transmitter



Dynamic Mike

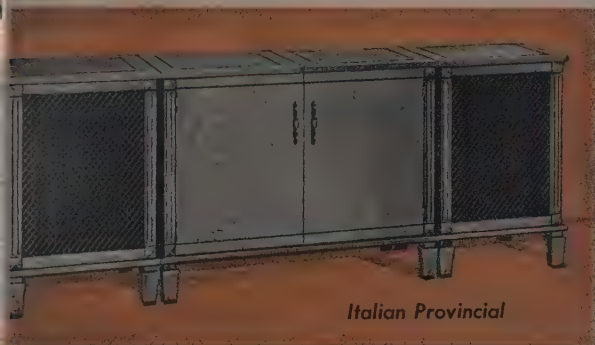
## SONY LOW-COST SYSTEM

**MODEL CR-4 SYSTEM.** Useful range of over 500 feet; operates on 27.12 mc. Excellent for broadcasting stations in remote pickups; auctioneers who need freedom of movement; and auditing firms tape recording physical inventories. Consists of a pocket-size transistorized FM transmitter; lavalier-type dynamic microphone; 8-tube FM receiver; and portable carrying case. Transmitter is powered by two batteries (below), and has antenna and On-Off switch. Transmitter: 4 1/2"x1 1/2"; receiver: 4 1/2"x9 3/4"x6 3/4"; mike: 2 3/4"x1 3/4". From Japan. Receiver for operation from 110-120 volt, 50-60 cycle AC. Shpg. wt., 8 lbs. **93 SC 409. No Money Down. NET.....250.00**  
**80 J 785. Battery for Above.** 2 required. 3 oz. NET EACH.....1.51





Contemporary



Italian Provincial



Early American

## GAMBER JOHNSON

A Variety of Elegant Styles  
To Match any Room Decor



### "Ovation" Component Cabinetry

Produced to meet the highest standards of furniture craftsmanship, each of these groupings features  $\frac{3}{4}$ " construction throughout; genuine hand-rubbed veneers; finished panel for custom-mounting of components; and lift-top access to phono compartment. Interior dimensions of equipment cabinets are identical. Amplifier-tuner section at upper left, 14" high, 17 $\frac{1}{2}$ " wide and 15 $\frac{1}{2}$ " deep; phono section, 10x17 $\frac{1}{2}$ x14 $\frac{1}{2}$ "; lower right record storage section, 13x17 $\frac{1}{2}$ x16"—accommodates 100 records; lower left, 10x17 $\frac{1}{2}$ x16"—ideal for tape deck or records.

### CONTEMPORARY

ENTIRE ENSEMBLE. Includes equipment cabinet and two matching speaker enclosures. All units are finished in attractive oiled walnut or mahogany. Outer dimensions of cabinet, 30x37 $\frac{1}{2}$ x18"; outer dimensions of each speaker enclosure, 30x19 $\frac{1}{4}$ x18". Enclosures are pre-cut for 15" speaker, with dapter board for 12" speaker; also have removable port that allows you to perfectly match speaker to enclosure. Non-shrinking fabric grille cloth. Allied guarantees perfectly matching finishes on all three pieces only when entire ensemble is purchased at the same time. Specify mahogany or oiled walnut. Shpg. wt., 184 lbs.

70 DZ 555C-3. Save \$12.00. ONLY 227.85

70 DZ 556. Specify Finish. NET... 119.95

70 DZ 557. Specify Finish. NET... 59.95

### ITALIAN PROVINCIAL

ENTIRE ENSEMBLE. Includes equipment cabinet and two matching speaker enclosures. All units are finished in elegant antique fruitwood. Outer dimensions of cabinet, 29x38 $\frac{1}{2}$ x17 $\frac{3}{4}$ "; outer dimensions of each speaker enclosure, 29x19 $\frac{1}{4}$ x17 $\frac{3}{4}$ ". Interior of speaker enclosures is identical to that of the Contemporary grouping (see description in column at left). Solid  $\frac{3}{4}$ " acoustically superior construction used on all three pieces exclusively. Allied guarantees perfectly matching finishes on all three pieces only when entire ensemble is purchased at the same time. Shpg. wt., 184 lbs.

70 DZ 558-3. Save \$13.50. ONLY 256.35

70 DZ 559. NET... 129.95

70 DZ 560. NET... 69.95

70 DZ 561-3. Save \$13.50. ONLY 256.35

70 DZ 562. NET... 129.95

70 DZ 563. NET... 69.95

### EARLY AMERICAN

ENTIRE ENSEMBLE. Includes equipment cabinet and two matching speaker enclosures. All units are finished in authentic harvest maple. Outer dimensions of cabinet, 28 $\frac{3}{4}$ x38 $\frac{3}{4}$ x17 $\frac{3}{4}$ "; outer dimensions of each speaker enclosure, 28 $\frac{3}{4}$ x21 $\frac{1}{4}$ x17 $\frac{3}{4}$ ". Interior of speaker enclosures is identical to that of Contemporary grouping (see description in column at left). Solid, acoustically correct construction—hand-rubbed veneers throughout. Allied guarantees perfectly matching finishes on all three pieces only when entire ensemble is purchased at the same time. Shpg. wt., 194 lbs.

70 DZ 561-3. Save \$13.50. ONLY 256.35

70 DZ 562. NET... 129.95

70 DZ 563. NET... 69.95

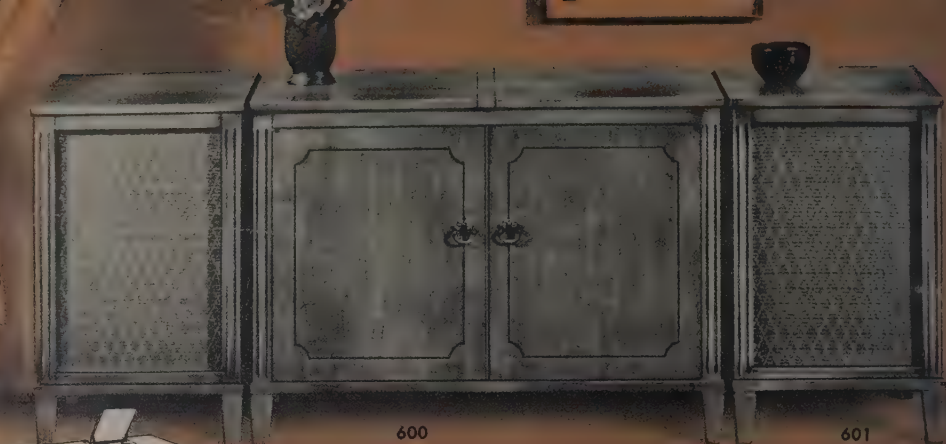
70 DZ 564. NET... 129.95

70 DZ 565. NET... 69.95

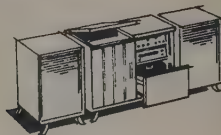
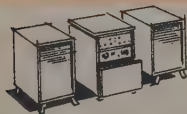
70 DZ 566. NET... 129.95

70 DZ 567. NET... 69.95

Allied Offers A Complete Selection of Custom Installation Accessories



## ROCKFORD Acoustically Engineered Component Cabinetry



### ITALIAN PROVINCIAL ENSEMBLE

Authentic Italian Provincial styling to please the discriminating eye. Includes Model 600 cabinet and two Model 601 enclosures. Functional equipment cabinet has top-loading phono compartment, 14 $\frac{1}{4}$ " high, 17 $\frac{1}{4}$ " wide and 6 $\frac{1}{2}$ " deep. Upper left has space for tuner and amplifier—17 $\frac{1}{4}$ " wide and 14 $\frac{1}{2}$ " high. Also has blank panel for custom mounting of components—accommodates 100 records. Lower left accommodates additional records. Hinged doors with convenient magnetic latches. Overall size of cabinet, 27 $\frac{1}{4}$ x38x17". Speaker enclosures take speakers up to 12". Each enclosure, 27 $\frac{1}{4}$ x17x17". Specify fruitwood or oiled walnut. Wt. of entire ensemble, 160 lbs.

70 DZ 688-3C. Save \$10.00 NET 189.85

70 DZ 685C. Equipment Cabinet Only.

Shpg. wt., 80 lbs. NET.....99.95

70 DZ 686C. Speaker Enclosure Only.

Shpg. wt., 40 lbs. NET EACH.....49.95

### CONTEMPORARY ENSEMBLE

Lowest-cost ensemble in the popular Contemporary motif includes Model 120-B Equipment Cabinet plus two Model 101-B Speaker Enclosures. Space-sparing cabinet has top compartment 13 $\frac{1}{4}$ " high and 18" wide. Also has blank panel for custom mounting of components. Lower pull-out drawer has blank mounting board. Cabinet has easy-sliding drop front that disappears when components are exposed. Overall size of cabinet, 31x20x18". Speaker enclosures accommodate 12 or 15" speakers. Plastic cane grille cloth. Each enclosure, 31x20x18". Specify choice of mahogany, blonde or oiled walnut finish. Shpg. wt., entire ensemble, 155 lbs.

70 DZ 576-3C. Save \$9.40 NET..175.00

70 DZ 577C. Equipment Cabinet Only.

Shpg. wt., 55 lbs. NET.....64.50

70 DZ 578C. Speaker Enclosure Only.

Shpg. wt., 50 lbs. NET EACH.....59.95

### DELUXE CONTEMPORARY ENSEMBLE

Spacious fine-furniture grouping includes Model 500-B Equipment Cabinet and two Model 501-B Speaker Enclosures. Roomy cabinet has lift-top upper-left compartment for changer or tape deck. Size, 16 $\frac{1}{4}$ x19 $\frac{1}{2}$ x6". Upper right section accommodates amplifier and tuner, has maximum height of 13 $\frac{1}{4}$ ", width 18 $\frac{1}{4}$ ". Cabinet includes pull-out drawer for changer, turn-table or recorder—stores up to 150 records. Sliding doors. Overall size, 31x40x19 $\frac{1}{2}$ ". Speaker enclosures take 12 or 15" speaker. Plastic cane grille cloth. Each enclosure, 31x20x19 $\frac{1}{2}$ ". Specify mahogany, blonde or oiled walnut. Shpg. wt., entire ensemble 213 lbs.

70 DZ 579-3C. Save \$13.00 NET. 246.85

70 DZ 580C. Equipment Cabinet Only.

Shpg. wt., 113 lbs. NET.....129.95

70 DZ 581C. Speaker Enclosure Only.

Shpg. wt., 50 lbs. NET EACH.....64.95





## ROCKFORD Cabinetry to Complement Your Decor

**MODEL 1100/1101.** Authentic French Provincial design highlights this beautiful home music center. Ensemble includes Model 1100 Equipment Cabinet and two Model 1101 Speaker Enclosures. Equipment cabinet has four compartments: Lift-top phono compartment on upper right—size,  $16\frac{1}{2} \times 19\frac{1}{2} \times 6$ " deep; lower right compartment has space for 150 LP records; upper left has space for tuner and amplifier—has removable shelf which is adjustable—size,  $18\frac{3}{4} \times 14$ " high; lower left section may be used for additional storage. Hinged doors with magnetic latches. Size of equipment cabinet;  $32\frac{1}{4}$ " high,  $41\frac{1}{4}$ " wide,  $19\frac{1}{2}$ " deep. Bass-reflex design speaker enclosures for 12" or 15" speakers. Overall enclosure size:  $32\frac{1}{4}$ " high,  $21$ " wide,  $19\frac{1}{2}$ " deep. In fruitwood finish only. Shpg. of entire ensemble, 177 lbs.

**70 DZ 582-3. Save \$23.50 NET.....436.00**

**EQUIPMENT CABINET ONLY. Shpg. wt., 97 lbs. 70 DZ 583. NET.....239.50**

**SPEAKER ENCLOSURE ONLY. Shpg. wt., 40 lbs. 70 DZ 584. NET.....110.00**

### MODEL 1000-B CONSOLE

This cabinet gives you a compact, integrated, all-in-one console that looks smart and conserves space. Acoustically designed enclosures are structurally reinforced to eliminate all cabinet resonance, for excellent results whether you use a transcription table or a record changer. Each is designed to house a 12" speaker or separate multi-way speaker system. The center section of this console is designed to house your components and is identical to the equipment cabinet described on the opposite page (the 100-B). In three elegant fine-furniture finishes. Available in mahogany, blonde, or oiled walnut. Overall size:  $31$ " high,  $18$ " wide,  $18$ " deep. Shpg. wt., 176 lbs.

**70 DZ 585C. Specify Finish. NET.....159.95**

### MODEL 110-C CHAIRSIDE CABINET

The height of convenience—chairside control of your hi-fi system! Lower front section has  $3\frac{1}{4}$ " below and  $\frac{1}{4}$ " above record changer board;  $16\frac{1}{2}$ " wide,  $15\frac{1}{2}$ " deep. Top compartment  $6\frac{1}{2} \times 17\frac{1}{2} \times 14$ ". Lower compartment has same dimensions. With 6" legs. Size:  $20 \times 19 \times 30$ " (with legs). Available in choice of mahogany or oiled walnut veneer. Shpg. wt., 47 lbs.

**70 DZ 655C. Specify Finish.....69.95**

### MODEL 108 SPEAKER ENCLOSURE

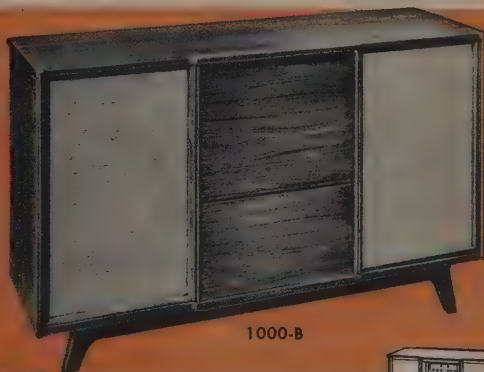
Attractive shelf-type enclosure for horizontal or vertical use. Will accommodate an 8" speaker, plus tweeter which can easily be added at any time. Beautifully finished on all four sides in rich hand-rubbed veneers. Cane grille cloth,  $12 \times 24 \times 12$ ". Available in choice of mahogany or oiled walnut veneer. Shpg. wt., 25 lbs.

**70 DU 462C. Specify Finish. NET.....26.95**

### MODEL 112 SPEAKER ENCLOSURE

Handsomely styled, acoustically lined enclosure for any 8" speaker and tweeter. Semi back-loaded resonator combined with smart construction in a compact speaker enclosure. Hand-rubbed, veneer finish on four sides; plastic cane grille cloth,  $24 \times 16 \times 13\frac{1}{2}$ " (plus 2" base). In mahogany or oiled walnut. Shpg. wt., 35 lbs.

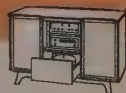
**70 DZ 073C. Specify Finish. NET.....42.95**



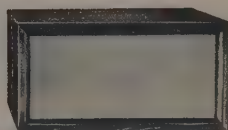
1000-B



110-C



108



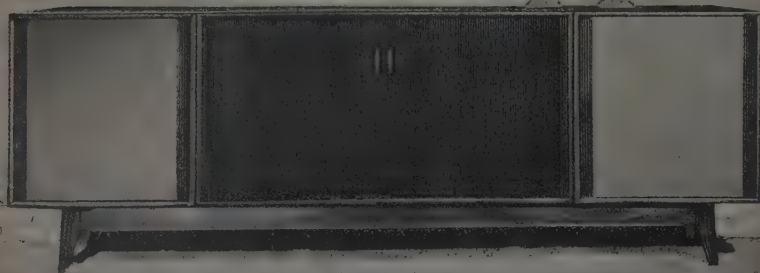
128

### NEW ROCKFORD COMPACT ENCLOSURE

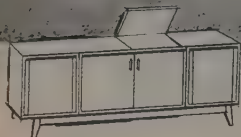
**MODEL 128.** Economical shelf enclosure designed for 8" speaker and tweeter. This beautifully finished money-saving enclosure may be used anywhere as high fidelity speaker system or auxiliary extension unit, or in pairs for stereo. Available in your choice of mahogany or oiled walnut finish. Size:  $9 \times 11 \times 19$ ". Shpg. wt., 20 lbs. *Specify Finish.*

**70 DU 586C. NET.....19.95**

California-inspired "Decorator Styling" and the use of choice American Black Walnut woods highlight this elegant furniture grouping. Here is truly deluxe cabinetry—for the deluxe high-fidelity music system.



Model 90E



MODEL 90E MATCHED  
3-PIECE ENSEMBLE

A matched set for stereo systems. Consists of one Model 9061B equipment cabinet and two 9062B speaker enclosures. All have fine oiled walnut finish with attractive walnut interiors. Ensemble is shipped with a one-piece, 8" high, solid walnut, sculptured base which supports all three units.

Equipment cabinet features smooth-gliding tambour doors, two shelves, plus blank panel for custom installation of components; also includes 20" wide by 15" deep top-loading changer compartment, and 20 1/4" by 12 3/4" record storage space. Overall size of equipment cabinet, 24x48x18" (not including base).

Speaker enclosures accommodate any 12" or 15" speaker. Employ phase-inversion principle for outstanding reproduction—utilize huge 6 cubic-foot capacity. Internally braced for vibration-free performance. Smart, contrasting grille. Size of each enclosure, 24x24x18" (not including base). Shpg. wt. of ensemble, 247 lbs. *No Money Down.*

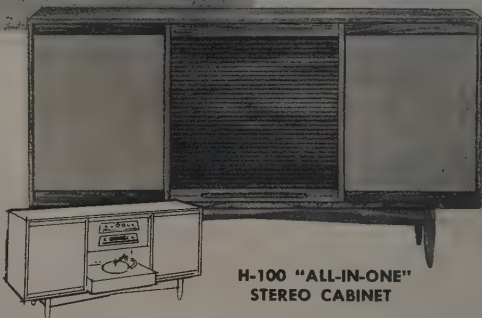
70 DZ 570-4. Oiled Walnut Finish. *Save \$30.00. NET.....* 399.85

MODEL 9061B EQUIPMENT CABINET ONLY. Dimensions listed above. With individual 8" sculptured base. Wt., 115 lbs. *No Money Down.*

70 DZ 571. Oiled Walnut Finish. NET..... 229.95

MODEL 9062B SPEAKER ENCLOSURE ONLY. Dimensions listed in ensemble description, above. Supplied complete with 8" individual sculptured base. Shpg. wt., 66 lbs. *No Money Down.*

70 DZ 572. Oiled Walnut Finish. NET..... 99.95



H-100 "ALL-IN-ONE"  
STEREO CABINET

Eye-catching contemporary design, expert craftsmanship and solid, acoustically-correct choice American Black Walnut woods make this California-inspired unit a furniture masterpiece. Carefully hand-finished in easy-to-care-for oiled walnut, the H-100 accommodates amplifier, tuner, changer or tape deck and both speakers. A unique roll-up door exposes all components—and then is concealed. Slide-out phono drawer is large enough for any record changer, turntable or tape deck. Removable front panel is 22" wide and 10" high (15" behind panel)—amplifier and tuner may be custom mounted or placed on shelf supplied. Speaker enclosures are pre-cut for use with 12" speakers—provide superb hi-fi response. Overall size, 32x60x18" (including 8" base). Shpg. wt., 135 lbs.

70 DZ 023. Oiled Walnut Finish. NET..... 179.50



COMPLETE THREE-PIECE ENSEMBLE

Includes Model 505-A equipment cabinet and two Model 501-A speaker enclosures, in matching oiled walnut finish. Cabinet has slide-out changer base; blank equipment panel for custom installation; neutral ebony interior and ebony conical legs with handsome brass ferrules; attractive front edging offset in ebony; and piano-type hinges on each of two doors for maximum convenience. Left side, 22 1/2x16 1/2x14"; changer compartment, 9 3/4" (5 3/4" above board)x16x14"; record storage compartment, 12 1/2x17x15". Overall cabinet size, 30 1/2x35 3/4x17 3/4". Speaker enclosures accommodate any 12" or 15" speaker—include cutout for tweeter. Bass-reflex design provides excellent high-fidelity response in along-the-wall placement; selected panels assure vibration-free performance.

Fully lined with acoustic insulation; decorative grille cloth. Also have ebony edging and ebony legs with brass ferrules. Each enclosure, 30 1/2x23 3/4x17 3/4". Shpg. wt., 192 lbs. *No Money Down.*

70 DZ 041-3. Oiled Walnut Finish. NET..... 271.00

MODEL 505-A EQUIPMENT CABINET ONLY. Dimensions in ensemble description at left. Shpg. wt., 82 lbs. *No Money Down.*

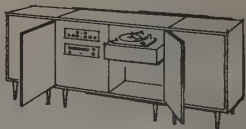
70 DZ 003. Oiled Walnut Finish. NET..... 115.00

MODEL 501-A SPEAKER ENCLOSURE ONLY. Dimensions listed in ensemble description at left. Shpg. wt., 55 lbs. *No Money Down.*

70 DZ 004. Oiled Walnut Finish. NET..... 78.00

# ARTIZANS

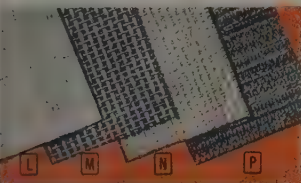
Attractive component cabinetry styled in the popular contemporary motif. Simple, functional... tasteful.





# Grill Cloths ACOUSTONE

## "SOLAR" GRILLE CLOTHS



TESTED AND APPROVED FOR FREE PASSAGE OF  
ALL AUDIO FREQUENCIES BY U. S. TESTING CO.

## "ACOUSTONE" SPEAKER ENCLOSURE GRILLE CLOTHS

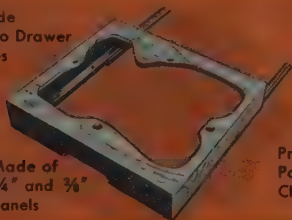
A wide selection of popular Acoustone speaker enclosure grille cloth in highly attractive, color-fast patterns. Match virtually all types of decorative motifs from traditional to the latest in contemporary modes. Made of highly durable Saran plastic in an open weave to permit unrestricted passage of all sound frequencies—you get all the sound! Special construction plus professional weaving techniques—allow stretching over large openings without danger of sagging or shrinkage. Shpg. wt. per yard, 15 oz.

- L** "PANDANUS." Highly attractive, imported straw fabric. In 27" width only (min. order, 1 yard). Wt. per yd., 15 oz.  
86 SX 974. NET PER YARD... 1.60  
86 SX 975. To 10 1/2 yds., PER YARD... 1.60
- M** "CANE." Natural cane, woven on rich brown plastic fabric. Highly suitable for modern decors. In 36" width only (min. order, 1 yard). Wt. per yd., 15 oz.  
89 SX 030. NET PER YARD... 2.90  
89 SX 032. Over 1 yd., PER YARD... 2.90
- N** "CANE." Natural cane, in ripple weave, fastened to natural straw backing. In 36" width only. (Min. order, 1 yd.) Shpg. wt. per yd., 15 oz.  
89 SX 031. NET PER YARD... 4.25  
88 SX 232. Over 1 yd., PER YARD... 4.25
- P** "LUREX." Brown and tan shades, with gold and bronze "Lurex" metallic thread. In 36" width only (min. order, 1 yd.). Shpg. wt. per yd., 15 oz.  
89 SX 049. NET PER YARD... 4.40  
89 SX 047. Over 1 yd., PER YARD... 4.40

| Description                          | Pattern No. | Fig. | Stock No.             |           | NET PER YD. |
|--------------------------------------|-------------|------|-----------------------|-----------|-------------|
|                                      |             |      | In Lengths Over 1 Yd. | 36"x36"   |             |
| Mahogany with Ivory Threads          | 211         | A    | 86 SX 994             | 89 SX 009 | 2.39        |
| Dark Brown, White and Yellow Threads | 321         | A    | 89 SX 033             | 89 SX 032 | 2.39        |
| Blonde with Metallic Gold Threads    | 515M        | B    | 86 SX 998             | 89 SX 017 | 3.29        |
| Tan with Bronze Threads              | 811         | B    | 89 SX 053             | 89 SX 071 | 2.39        |
| Gold and Bronze                      | 213         | C    | 86 SX 997             | 89 SX 012 | 2.39        |
| Brown and Beige with Yellow Thread   | 1216A       | C    | 89 SX 035             | 89 SX 034 | 2.39        |
| Black and Gold; has Olive Sheen      | 452B        | D    | 89 SX 037             | 89 SX 036 | 2.39        |
| Beige with Metallic Gold Threads     | 711M        | E    | 89 SX 052             | 89 SX 070 | 3.29        |
| Dark Brown with Gold Threading       | 2016        | F    | 89 SX 085             | 89 SX 089 | 3.95        |
| Beige and Brown; Gold Threading      | 2025        | F    | 89 SX 084             | 89 SX 088 | 3.95        |
| Dark Mahogany with Gold Cobweb       | 300         | G    | 89 SX 003             | 89 SX 016 | 3.95        |
| Black with Gold Cobweb               | 453         | G    | 89 SX 001             | 89 SX 014 | 3.95        |
| Beige and White with Gold Threads    | 814BM       | H    | 89 SX 056             | 89 SX 074 | 3.95        |
| Beige; White, Metallic Gold Thread   | 7-59-1B     | H    | 89 SX 039             | 89 SX 038 | 3.95        |
| Gold; Brown, White, Gold Threading   | 560B        | H    | 89 SX 041             | 89 SX 040 | 3.95        |
| Woven Cane; Walnut-Tan-Gold Thread   | 1803        | J    | 86 SX 947             | 89 SX 077 | 3.95        |
| Brown; Mahogany and Gold Threading   | 3240        | K    | 89 SX 043             | 89 SX 042 | 3.95        |

## UNFINISHED RECORD CHANGER BASES

Include  
Phono Drawer  
Slides



Made of  
3/4" and 3/8"  
Panels

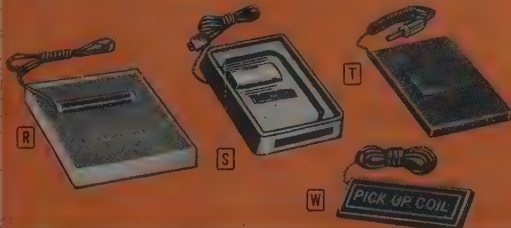
Pre-Cut for Most  
Popular Record  
Changers

- Smooth-Sanded Wood—Ready for Handsome Furniture Finish of Your Choice
- Fit Readily Into Most Hi-Fi Equipment Cabinets—Have Ball-Bearing Phono Drawer Slides

Take this opportunity to do-it-yourself and save. These unfinished record changer bases are made of smooth-sanded wood, ready to finish in the color of your choice. (See the low-cost, easy-to-use furniture finishing kits listed elsewhere in this section.) Changer bases include phono drawer slides with smooth-action, steel ball bearings. Sturdily constructed of 3/4" and 3/8" panels, with pre-drilled mounting holes. Bases will easily fit into most hi-fi equipment cabinets; have cutout for hand pull on front of base. Overall size: 3 1/2" high, 16 1/4" wide, 14 1/2" deep. Av. shpg. wt., 8 lbs.

| Stock No. | Pre-Cut For Use With:   | NET EACH |
|-----------|-------------------------|----------|
| 89 RX 624 | Webcor 1000 Series      | 7.75     |
| 89 RX 664 | Garrard Type A          |          |
| 89 RX 651 | Garrard AT6, "Autoslim" |          |
| 93 RX 494 | Uncut, with blank top   |          |

## TELEPHONE ACCESSORIES



## MAGNETIC PHONE PICKUPS

High-impedance coil units designed to permit recording both sides of a telephone conversation. For home or business use—eliminate guesswork. Do not require any electrical or physical connection to the telephone—simply place telephone on pickup, then plug it into microphone input of your tape recorder or amplifier.

- R** ELECTRO-DUCER PICKUP. For any telephone. Has removable coil. Size, 1x6 1/2x9 1/2". Includes 12-ft. cable. Shpg. wt., 1 lb.  
99 R 482. List, \$12.50. NET... 7.35
- S** ELECTRO-SCRIBER PICKUP. For standard rectangular-base cradle telephones. Heavy rubber construction. With 8-ft. cable and 3-prong Jones plug. Size, 1 1/2x5 1/2x8 1/4". Shpg. wt., 1 1/4 lbs.  
99 R 489. List, \$12.50. NET... 7.35
- T** KORD-O-KOIL PICKUP. For cradle telephones only. Has attractive leatherette finish. Includes 6-ft. cable tipped with standard phone plug. Size, 3/4x5 1/2x9 1/4". Shpg. wt., 1 1/4 lbs.  
99 R 486. List, \$10.00. NET... 5.88
- W** MAGNETIC RECORDING INDUSTRIES VM-938 PICKUP. For any telephone. Includes 5-ft. cable; less plug. 1/2x1 1/4x4". Wt., 8 oz.  
99 R 478. NET... 2.98

# Selected Custom Installation Accessories



**A** FIBERGLAS ACOUSTIC INSULATION. Eliminates "boom" and distortion-causing standing waves inside speaker enclosures. 1" thick, 24" wide, 60" long. 2 lbs.  
59 SX 935. NET.....1.32

**B** STANDARD 15" PHONO DRAWER SLIDES. For installing record changers or turntables in cabinets. Heavy steel; with ball bearings. 15" long with normal travel extension of 11". Attach to bottom or sides of phono drawer or base. Shpg. wt., 4 lbs.  
86 R 195. NET.....1.90

STANDARD 13" PHONO DRAWER SLIDES. As above, but 13" long. Shpg. wt., 4 lbs.  
86 R 194. NET.....1.90

HEAVY-DUTY PHONO DRAWER SLIDES. 18" long. Normal extension, 16". Shpg. wt., 5 lbs.  
86 R 199. NET.....3.50

**C** BARZILAY OIL FURNITURE FINISH. Liquid preparation gives soft luster to oiled walnut furniture finishes. A blend of eight basic oil compounds, including 40% "solids" for greater surface protection than conventional turpentine and linseed oil preparations. 8-oz. bottle. Shpg. wt., 1 lb.  
70 D 569. NET.....1.95

**D** SPEAKER REDUCER RINGS. For using smaller speakers in larger enclosures. Made of 3/4" plywood. With hardware.

MODEL R/R 12/18. For mounting 8" speaker in 12" speaker baffle or cabinet. 1 lb.  
82 D 298. List \$2.00. NET.....89c

MODEL R/R 15/12. For mounting 12" speaker in 15" speaker baffle or cabinet. 1 1/2 lbs.  
82 DX 299. List, \$2.75. NET.....1.19

## SWITCHCRAFT

CONTROLS & SWITCHES

Made in U.S.A.



## HI-FI CUSTOM INSTALLATION BOOK

**YOUR OWN BUILT-IN STEREO MUSIC SYSTEM.** Prepared by Allied's custom installation experts. Includes 20x32" blueprints; mounting and wiring instructions; pictures, etc. 16 pages. 8 1/2 x 11". Postpaid in U.S.A.  
39 K 241. NET.....10c

**E** G-C DECORATIVE METAL GRILLE. Decorative brushed-brass finish. Diamond pattern. 2 1/4 x 3/4". Av. wt., 4 lbs.  
86 SX 070. 12x18". NET.....1.76

86 SX 071. 18x24". NET.....3.23

86 SU 072. 24x36". NET.....6.14

**F** AUDIOTEC REMOTE OFF-ON CONTROL FOR HI-FI SYSTEMS. Handy self-powered remote control unit for turning your hi-fi set (or other appliance) on and off from any location in your home. Includes power control unit for plugging into set, and 3 switches—any of these switches may be used to turn the system off or on. Control unit contains a low-voltage power supply as well as a relay switch for the set. Switches are connected in parallel to the control unit, and can be placed up to 120 ft. from your set or appliance. Switches are operated in the same manner as light switches; fit any standard electrical outlet box or may be built into cabinet. Any number of switches can be added. Capacity of control unit is 10 amps at 110-120 volts AC. Less wire.

MODEL 30-300. Includes power control unit with three switches. Shpg. wt., 2 lbs.  
59 S 917. List, \$23.00. NET.....13.52

MODEL 30-302. Includes power control unit with 3 pilot-light switches (additional switches without pilot light may be added).  
59 S 918. NET.....16.46

MODEL 30-304—ADDITIONAL SWITCH. Less pilot light. Shpg. wt., 5 oz.  
59 S 919. NET EACH.....1.32

3-CONDUCTOR WIRE FOR ABOVE. 100-ft. length. Shpg. wt., 100 ft., 2 lbs.

47 T 360. 100' or More, PER 100 FT.....2.45

MODEL 665 SPEAKER-PHASE CONTROL. Provides proper phasing in stereo and other multiple speaker installations. Slide switch alters phasing. Supplied complete with four mounting screws; suitable for mounting in cabinet or on wall. Convenient screw terminals for wiring ease. Size, 2x2x1". In attractive tan finish. Shpg. wt., 10 oz.  
89 S 805. NET.....1.47

MODEL 662. STEREO-MONOPHONIC SELECTOR WITH CHANNEL REVERSE SWITCH. A versatile accessory for any stereo-monophonic music system. Provides instant switching from stereo to monophonic operation at amplifier input; permits reversing stereo channels at the flick of a switch. Has 2 phono jack inputs, 2 phono jack outputs. Outputs are connected together in monophonic position. In tan-finished, shielded housing. Complete with hardware. 1 1/2 x 2 x 2". Shpg. wt., 10 oz.  
89 S 802. NET.....2.06

MODEL 670 STEREO SPEAKER SWITCH. 3-position unit connects to 2 remote stereo systems plus two monophonic speakers or third stereo system. Color-coded screw terminals. Size, 1x2x2". Shpg. wt., 10 oz.  
59 S 937. NET.....3.70

MODEL 366 VOLUME CONTROL ADAPTER. Single channel for high impedance circuits only (crystal mike, phono, etc.). Ideal for use in unbalanced stereo channels. Nickel plated. Shpg. wt., 8 oz.  
59 S 936. NET.....2.32

**G** SPEAKER MOUNTING BOLTS. Carriage bolts for mounting speaker to wood panel. Flat head, 1/4x2" long. With square nuts. 4 per pkg. Shpg. wt., 4 oz.  
45 N 846. NET PER PKG.....13c

**H** ROFLEX SHEATHED CABLE. For long speaker lines in indoor or outdoor applications. No. 14, 2-conductor solid. Thermoplastic insulated. Minimum order 100 ft. Shpg. wt., 100 ft., 7 lbs.  
47W 549. PER 100'.....6.23

**J** FM TWIN LINE ANTENNA. Low cost, folded-dipole type indoor antenna designed for FM reception. Perfect for use where concealed antenna would be desirable, or where outdoor antenna installation is not feasible. Simply place under rug, behind cabinet or in any other out-of-the-way location. Consists of 300 ohm twin-line with 6 ft. lead-in wire. Wt., 6 oz.  
92 C 019. NET.....99c

**K** AUTOMATIC "MUSIC MINDER". For music systems employing Garrard, Collaro, Thorens and other European-made automatic record changers. When your changer starts off (after the last record has played), the entire system is turned off. Permits you to fall asleep to your favorite records, etc., without leaving your amplifier on indefinitely. Plug the changer into one outlet on the "Music Minder" and the amplifier into the other one. Has Manual position for non-automatic operation. 6 1/2 x 2 1/2 x 1 1/2". Wt., 2 lbs.  
91 S 568. NET.....5.50

As above, but for Webcor, other American-made changers.

91 S 567. NET.....5.50

MODEL 653 SPEAKER VOLUME CONTROL WITH JACK CONNECTION. Mounts in standard wall outlet box. Constant-impedance and wall outlet lets you control volume of hi-fi or P.A. system from remote location. Jack accepts standard two-conductor phone plug. Rated at 4 watts. Brushed brass wall plate; ivory and black dial. 8 ohms. 4 1/2 x 2 3/4 x 1 3/4". Shpg. wt., 8 oz.  
59 S 938. NET.....9.70

MODEL 654 SPEAKER VOLUME CONTROL WITH JACK CONNECTION. As above, but impedance, 16 ohms.  
59 S 939. NET.....9.70

MODEL 655 MULTI-SPEAKER SELECTOR SWITCH. 7-position unit fits standard wall outlets. Selects any combination of three speakers. Ivory and black dial; brushed brass plate. Screw terminals. Maintains constant impedance regardless of switch position. 4 1/2 x 2 3/4 x 1 1/4". Wt., 8 oz.  
89 S 808. NET.....5.26

MODEL 656 SPEAKER VOLUME CONTROL. Convenient speaker volume control with brass wall plate. Employs a specially designed L-pad with "off" position—completely cuts off speaker when knob is turned counter-clockwise all the way. Wall plate is handily styled in brushed brass—fits standard electrical outlet boxes. Easy to install. Has solder lug terminals. Rated at 10 watts of peak audio power. 8 ohms. Size, 4 1/2 x 2 3/4 x 1 1/4". Shpg. wt., 10 oz.  
59 S 450. NET.....4.09

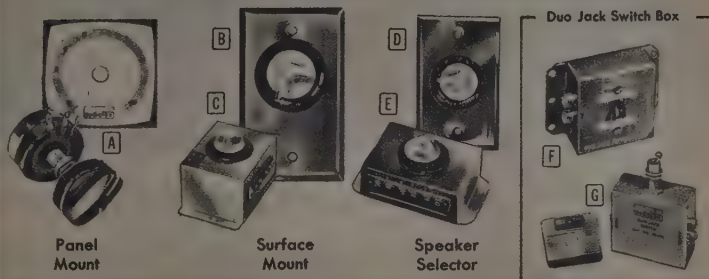
Allied's Audio Experts Can Help You Plan Your Home Music/Intercom Installation



## L-Pad Volume Controls

Precision-built speaker volume controls designed for the most critical high fidelity or public address requirements. All of these high quality controls listed below employ self-compensating L-pad circuitry; provide constant impedance match. By installing one of these units for your own sound system, you can enjoy the advantage and convenience of remote operation from any location—without any loss of audio quality whatsoever. Stereo models control both speakers simultaneously. All are rated at 10 watts continuous power; 20 watts audio peak. Convenient screw-type terminals add to the ease of installation—no soldering required. With brass hardware and instructions. Av. shpg. wt., 8 oz.

## Controls and Switches by AUDIOTEX



Panel Mount

Surface Mount

Speaker Selector

Duo Jack Switch Box

| Stock No. | Model No. | Fig. | Impedance | Mode   | Type of Mounting                 | NET  |
|-----------|-----------|------|-----------|--------|----------------------------------|------|
| 59 S 920  | 30-364    | A    | 8 ohms    | Mono   | Wall Plate—standard outlet box   | 2.91 |
| 59 S 921  | 30-366    | A    | 16 ohms   | Mono   | Wall Plate—standard outlet box   | 2.91 |
| 59 S 922  | 30-372    | A    | 8 ohms    | Stereo | Wall Plate—standard outlet box   | 5.00 |
| 59 S 923  | 30-374    | A    | 16 ohms   | Stereo | Wall Plate—standard outlet box   | 5.00 |
| 59 S 924  | 30-376    | B    | 8 ohms    | Mono   | Surface Mount—self-contained box | 4.12 |
| 59 S 925  | 30-378    | B    | 16 ohms   | Mono   | Surface Mount—self-contained box | 4.12 |
| 59 S 926  | 30-380    | B    | 8 ohms    | Stereo | Surface Mount—self-contained box | 6.17 |
| 59 S 927  | 30-382    | B    | 16 ohms   | Stereo | Surface Mount—self-contained box | 6.17 |
| 59 S 928  | 30-384    | C    | 8 ohms    | Mono   | Panel Mount—1" shank, dial plate | 2.06 |
| 59 S 929  | 30-386    | C    | 16 ohms   | Mono   | Panel Mount—1" shank, dial plate | 2.06 |

### Speaker Selector Switches

Convenient, fine-quality controls for operation in high fidelity and public address applications. For selecting any combination of 1 to 3 speakers. Each switch automatically matches impedance as various combinations of speakers are used. Available in both monophonic and stereo versions—stereo model controls three pairs of speakers. Supplied complete with screw-type terminals—no soldering required. Av. shpg. wt., ½ lb.

|                    |                                                              |  |
|--------------------|--------------------------------------------------------------|--|
| D                  | MODEL 30-362 WALL PLATE. Monophonic speaker selector.        |  |
| 59 S 934. NET..... | 2.06                                                         |  |
| E                  | MODEL 30-360 SURFACE MOUNT BOX. Monophonic speaker selector. |  |
| 59 S 933. NET..... | 3.23                                                         |  |
| D                  | MODEL 30-388 WALL PLATE. Stereo speaker selector.            |  |
| 59 S 930. NET..... | 2.91                                                         |  |

### DUO-JACK SWITCH BOXES

For feeding either of two different monophonic signal sources—such as tuner, record player, or tape recorder into a single amplifier input without changing cables. Switch selects which signal is to be fed into the amplifier. Each switch box is equipped with two phono jack inputs and a single output cable. Cable has 18" length and is tipped with phono plug.

|                    |                                                                                                                                                                                                                                          |  |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| F                  | MODEL 30-294 SURFACE MOUNT SWITCH BOX. For installation on shelf, wall, etc. Equipped with convenient, easy moving slide switch. Shpg. wt., 10 oz.                                                                                       |  |
| 59 S 931. NET..... | 1.76                                                                                                                                                                                                                                     |  |
| G                  | MODEL 30-296 PANEL MOUNT SWITCH BOX. For custom mounting in wood panels with thickness up to ¾". Supplied complete with easy action toggle switch. Attractive dial plate adds a distinctive "custom look" to the unit. Shpg. wt., 10 oz. |  |
| 59 S 932. NET..... | 2.20                                                                                                                                                                                                                                     |  |

## Switches and Controls by VIDAIRE



MS-6  
Speaker Switch

MS-12  
Speaker Switch

SE-8  
Equalizer

RS-10  
Speaker Switch

RF-10  
Fader

SP-5  
Phaser

JL  
Volume Control

**SPEAKER SELECTOR SWITCHES.** Models for monophonic or stereo systems. Wiring instructions include details on selecting the correct resistors to maintain proper impedance. Less resistors. Include gold-embossed, brass plates and hardware. Av. hpg. wt., 8 oz.

**MODEL MS-6.** For instant switching of up to 2 speakers. Multi-speaker, monophonic installations. Panel, 3/4x2 1/2".  
4 S 438. NET..... 2.10

**MODEL MS-12.** As above, but for stereo or monophonic use. Controls 6 pairs of speakers for stereo, or 12 speakers in monophonic applications. Panel, 3/4x2 1/2".  
9 S 451. NET..... 2.64

**STEREO SPEAKER EQUALIZER WITH PHASING SWITCH.** Includes L-pad controls which permit adjusting each speaker in stereo system to provide equal output. Minimizes need for inbalancing amplifier in order to obtain equal volume from each speaker. Also includes speaker phasing switch to assure best bass reproduction and most realistic stereo effect. Gold-embossed brass mounting plate. With hardware. 2 1/4x4 1/2x2 1/4". Wt., 10 oz.  
9 S 114. Model SE-8. 8 ohms.  
9 S 115. Model SE-16. 16 ohms.  
NET EACH..... 7.17

**MODEL RF-10 SPEAKER FADER CONTROL.** Exceptionally low-cost control for use in homes, offices, etc. where two speakers (monophonic) are connected to the same audio signal source. Provides variable distribution of volume between main speaker and remote speaker. Decreases the gain of one speaker while increasing the gain of the other speaker (does not maintain constant impedance). May also be used to control the volume of an individual speaker. For use with 4-8 ohm speakers. Handles 5 watts of audio power. Gold embossed brass panel plate; solder terminals. Complete with all mounting hardware and easy-to-follow installation instructions. Size, 2 1/2x2 1/4x1 1/4". Wt., 8 oz.  
94 S 474. NET..... 1.15

**MODEL RS-10 2-SPEAKER SELECTOR SWITCH.** Extremely useful accessory for home music systems—or in stores, offices, etc. Connects remote speaker to radio, TV or hi-fi set. Permits listening enjoyment in any room, porch or patio without "blasting" at source. Has 3 positions—turns remote speaker on or off; turns speaker at central location on or off; or puts both speakers in operation. Quickly and easily installed. Brass plate is gold finished. With all hardware and instructions. Solder terminals. Size, 2 1/2x2 1/4x1 1/4". Shpg. wt., 8 oz.  
94 S 474. NET..... 98c

**MODEL SP-5 SPEAKER PHASING SWITCH.** Convenient, low cost control designed for use with stereo speaker systems. An exceptionally helpful accessory that assures the best possible sound from your stereo speakers—attains balanced sound by putting speakers "in phase." Switch function is to reverse polarity of one of the stereo speakers to insure proper phasing—resulting in the best stereo effect. Attractive brass plate may be mounted either on speaker enclosure or control panel. Handy solder terminals. Supplied complete with all necessary hardware. Panel, 2 1/4x2 1/4". Wt., 4 oz.  
89 S 113. NET..... 1.05

**MODEL JL SPEAKER VOLUME CONTROL.** Deluxe L-pad type control with convenient phone jack outputs on panel for headphones and speaker. Designed for remote hi-fi listening, classrooms, auditoriums, hospitals and other applications where both speakers and/or headphones may be used. Volume of both outputs is controlled simultaneously. Supplied complete with attractive satin brass panel that fits standard-size electrical-type wall boxes. Rated 10 watts audio. With all necessary mounting hardware and instructions. Screw terminals. Size of brass panel, 4 1/2x2 1/4". Shpg. wt., 8 oz.  
89 S 106. Model JL-8. 8 ohms.  
89 S 105. Model JL-16. 16 ohms.  
NET EACH..... 7.17

# ROBINS



## ROBINS Quality Record Care Accessories

**A** CC-US RECORD CHANGER COVER. Fits a variety of popular record changers. Offers protection from the harmful effects of dust, moisture, soot, etc. For use with Garrard RC88, 98 and 4HF; Glaser-Steers GS-77, Collaro, etc. Made of durable plastic. 17x 15x8 $\frac{3}{4}$ ". Shpg. wt., 6 oz.

59 R 996. NET. . . . .98c

**A** CC-TS TURNABLE COVER. Fits many of the popular turntables, including those manufactured by Fairchild, Rek-O-Kut and Garrard among others. Size, 22x 16x9". Shpg. wt., 6 oz.

59 R 997. NET. . . . .1.25

**B** E15-S DISC-CLOSURES—PLASTIC PROTECTIVE DISC COVERS. Protective sleeves for storing 12" records. Constructed of durable polyethylene plastic with thermoset seams to resist tearing. Prevent scratching of delicate record surfaces; seal out harmful dust and warp-causing moisture; end finger marking of records. Sleeves are extra long for added protection; bottoms are rounded for perfect fit. Designed for use either with or without standard cardboard record jackets. Packed 15 sleeves to a package—in plastic envelopes. Shpg. wt. 7 oz.

59 R 994. NET PER PKG. . . . .58c

**C** RB-75S CLIP-ON RECORD BRUSH. Soft camel's hair brush that mounts on pickup arm; brushes record ahead of stylus to remove dust from grooves. Selected, lightweight fibers will not scratch record surfaces. Simply clip in place. Does not interfere with tone arm tracking or stylus pressure. Shpg. wt., 3 oz.

59 R 992. NET. . . . .29c

**D** NB-1 "KLEENEEDLE" BRUSH. Automatic record changer needle brush. Whenever arm is cycled, stylus is wiped over brush. Removes accumulations of dust, lint, etc., from stylus tip—minimizes distortion in record reproduction. Base has adhesive pad for easy mounting. Shpg. wt., 4 oz.

96 R 769. NET. . . . .95c

**SD-45 "STROB-DISC."** (Not illus.) Place on turntable under neon light to check 16 $\frac{3}{4}$ , 33 $\frac{1}{2}$ , 45 and 78-rpm speeds. Wt. 2 oz.

59 R 995. NET. . . . .20c

**E** NEW PC-12S 12" POLYESTER PHONO CUSHION. Low-priced, polyester foam turntable mat for record changers. Protects against record slippage; cushions record drop on changers. Fits any model record changer or turntable; a hi-fi necessity. 12" in diameter; about  $\frac{3}{16}$ " thick. Wt., 3 oz.

59 R 988. NET. . . . .69c

**PC-10S 10" PHONO CUSHION.** As above, but 10" in diameter.

59 R 989. NET. . . . .59c

**F** NEW TL-1S TURNABLE LEVEL. A perfectly level turntable is absolutely essential for top performance from your stereo records, as well as monophonic discs. The easy-to-use TL-1S spirit level with air-bubble indicator helps you get accurate leveling on turntables and record changers; insures correct tracking of lead-in and changer trip grooves; prevents excessive record and stylus wear. Gold anodized aluminum case. 4 oz.

59 R 987. NET. . . . .59c

**NEW RA-45M 45-RPM RECORD SPIDERS.** (Not illus.) Made of metal for standing up under long use. Have easy snap-in insertion, lightweight design. 5 per package. Shpg. wt., per pkg., 4 oz.

59 R 986. PER PKG. OF 5. . . . .21c

**G** SE-900 ANTI-STATIC "ATOMIC JEWEL." Highly effective static neutralizer. Consists of a tiny jewel on a clip. Makes records dust-resistant by neutralizing static electric charges which attract dust. Weighs less than 1/50 of an ounce. Clips to tone arm. Reduces record noise; increases record and stylus life. Shpg. wt., 3 oz.

96 R 768. NET. . . . .2.70

**H** IP-16S ACOUSTIC ISOLATION PAD. Designed to minimize acoustic feedback, reduce excess noise and protect furniture finishes from heat. Place under record changer bases, tape recorders, amplifiers, preamps, etc., to absorb vibration. May be used beneath TV chassis. Made of highly resilient urethane foam. Size, 13 $\frac{1}{2}$ x16 $\frac{1}{2}$ ". Shpg. wt., 12 oz.

59 R 998. NET. . . . .1.00

**J** NEW MX-1 DELUXE STYLUS INSPECTION MICROSCOPE. For inspecting stylus tip to detect imperfections and signs of wear. The MX-1 features: 4 precision-ground optical glass lenses for clear magnification; knurled focusing adjustment; convenient slot at end of microscope for holding needle steady; and pen-type pocket clip. Size, 3 $\frac{3}{4}$  long;  $\frac{1}{2}$ " diameter. Shpg. wt., 5 oz.

59 R 984. NET. . . . .1.4

**K** NEW "SYLA-SCOPE" NEEDLE TIP CHECKER. A highly reliable instrument for checking stylus wear, the "SyLa-Scope" is a simplified version of an optical comparator used for examining tiny parts. Accurate and easy to use, it provides a magnified, illuminated image showing the detailed contour of your stylus tip. In most cases, stylus does not have to be removed from cartridge, or cartridge removed from arm.

Here's how it works: Place the pickup arm on the rest bar with stylus set into the opening provided on the bar. Switch the "SyLa-Scope" on, and a clear, magnified picture of the needle tip is projected on the illuminated screen for easy, accurate examination. Detecting flaws is as simple as checking test pattern on a TV screen!

**MODEL SG-33 "SYLA-SCOPE" JR.** Low cost portable battery-operated model. Employ two replaceable penlight batteries available anywhere. In plastic case, 5 $\frac{1}{2}$ x3 $\frac{1}{2}$ x1 $\frac{1}{4}$ ". With switch and bulb. Less batteries, below.

Shpg. wt., 12 oz.

59 R 990. NET. . . . .4.49

**BATTERIES FOR ABOVE.** Takes two, 3 oz.

53 J 031. NET EACH. . . . .10.00

**MODEL SG-66 PROFESSIONAL "SYLA-SCOPE."** Deluxe AC model with extra-sharp optical system and higher power enlargement, and with larger screen. A precision optical tool for use by recording studios, broadcast stations, serious record collectors, hi-fi technicians, etc. Metal housing, 7x5 $\frac{1}{2}$ x3 $\frac{3}{4}$ ". With switch, line cord and bulb. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 1 $\frac{1}{2}$  lbs.

59 R 991. NET. . . . .13.46

## Robins Record Accessory Kits



**L** ESK-5 STROBE LIGHT KIT. Tells you for sure if your turntable is moving at the proper speed. Consists of stroboscopic card and neon lamp. Place stroboscopic disc on turntable, set changer to desired speed and hold lamp over appropriate dots. Movement shows if turntable is correct. For 110-120 v., 60 cycle AC. Wt., 6 oz.

59 R 999. NET. . . . .98c

**M** ESK-15 BALANCED SOUND KIT. Inexpensive and easy to use, this handy kit contains a quick-reading stylus pressure gauge and a highly accurate turntable level. These two valuable phono accessories help preserve records—add to the life of the stylus—improve fidelity. Pressure gauge enables user to quickly determine correct stylus pressure; level shows even slightest turntable tilt. Shpg. wt., 4 oz.

59 R 993. NET. . . . .98c

**N** NEW ESK-4S TURNABLE LEVELING KIT. Here's a low-cost kit for getting—and keeping—your turntable perfectly level. Contains: four adjustable rubber feet and mounts, for placing under turntable base; and circular, 4-way spirit level (air bubble indicator), for permanently mounting on turntable base. Shpg. wt., 1 lb.

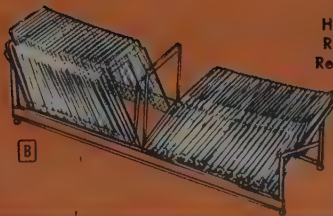
59 R 985. NET. . . . .1.80

**P** ESK-3 DELUXE RECORD CARE KIT. A complete kit of cleaning and maintenance accessories for records. Contains stylus pressure gauge that determines at what weight arm is tracking; turntable level to insure that turntable is not tilted; stylus microscope to check needle condition; record cleaning cloth; automatic needle brush; record brush; and arm lift. Shpg. wt., 1 lb.

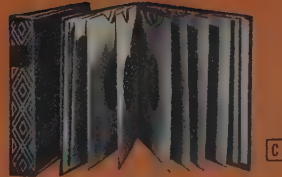
89 R 119. NET. . . . .3.38



Holds 60 records of all sizes



Hinged Record Retainers



## Record Care and Storage Accessories

**A** FLAT-TOP RECORD HOLDER. Accommodates sixty 7", 10" or 12" records with or without jackets. Only 16½" long—fits anywhere. Dividers are of heavy gauge steel with brass plating. Plastic-tipped legs. 16½" x 5½" x 5¼". Shpg. wt., 3 lbs.  
94 RX 942. NET.....2.59

**B** "PIC-A-DISC" RECORD HOLDER. Minimizes record warping. Features individually sprung wire record retainers that permit convenient, immediate selection of the desired record. Holds fifty 7", 10" or 12" records in jackets. Steel; finished in brass. Shpg. wt., 5 lbs.  
92 RX 751. NET.....4.98

**C** NEW DELUXE 12" RECORD ALBUM. Unusually sturdy. Has 12 tough Kraft-paper envelopes in binder. Durable, leather-one fabricoid cover. Has convenient index on inside of front cover. Gold stamped back. Shpg. wt., 2½ lbs.  
90 RX 970. NET EACH.....1.75  
1 or More, EACH.....1.49

**C** NEW DELUXE 7" RECORD ALBUM. For storing 7" records. As above, but less index. 12 pockets. Shpg. wt., ¾ lb.  
90 RX 971. NET EACH.....1.15  
1 or More, EACH......99

**D** NEW DISC STORAGE AND CARRYING CASES. Metal or fiberboard. 12" cases hold thirty 12" records; have numbered index and separators. 7" cases hold seventy-five 7" records; have numbered index and separators. Metal cases styled in red and white. Fiberboard cases are black with gold thread pattern and white trim. Sizes: 12" cases—13½"x13½"x4¼"; 7" cases—7¼"x8x7½". With plastic carrying handles.

12" CASE—METAL. Shpg. wt., 5¼ lbs.  
90 RX 972. NET EACH.....4.95

12" CASE—FIBERBOARD. Shpg. wt., 3½ lbs.  
90 RX 973. NET EACH.....3.95

7" CASE—METAL. Shpg. wt., 3¼ lbs.  
90 RX 974. NET EACH.....3.45

7" CASE—FIBERBOARD. Shpg. wt., 2½ lbs.  
90 RX 975. NET EACH.....2.95

## Pressure Gauges, Arm Positioner

**K** DEXTRAFIX ARM POSITIONER. Precision-made accessory for use with any turntable. The "Dextrafix" gently and accurately raises or lowers the pickup arm with a lever-type control, to permit precise placement of the pickup arm on any desired section of a record. Stop is fully adjustable to all record sizes—insures positive "cuing" at any point on record. Prolongs record and stylus life by eliminating accidental dropping of arm. Simple to install—adjusts to any pickup arm height. 5 oz.  
89 R 150. NET.....3.95

**L** GARRARD STYLUS PRESSURE GAUGE. Accurately measures weight exerted by a stylus upon a record. Markings in one gram intervals to 10 grams. All moving parts are lightweight alloy, sealed for added protection. Ideal aid for increasing record and needle life. Shpg. wt., 5 oz.  
59 R 947. NET.....2.95

**E** FEDTRO TURNTABLE LEVEL. High-quality level for precise leveling of turntables and record changers. Water bubble level shows slightest tilt. Adds to the life of phono stylus—greatly improves record fidelity. Shpg. wt., 6 oz.  
79 R 239. NET.....1.95

**F** TAPERED BRASS LEG KITS. Include 4 duopurpose brackets (for mounting legs in straight or angle position), 4 legs and screws. Handsome brass finish.  
79 D 196. 4" Kit. Wt., 2 lbs. NET...2.49  
79 D 197. 6" Kit. Wt., 3 lbs. NET...2.79  
79 D 198. 12" Kit. Wt., 4 lbs. NET...3.79  
79 D 199. 14" Kit. Wt., 5 lbs. NET...4.19  
70 DX 523. 20" Kit. Wt., 5½ lbs. NET 5.39  
70 DX 524. 28" Kit. Wt., 7 lbs. NET...6.19

UNFINISHED TAPERED WOOD LEG KITS.  
70 D 525. 4" Kit. Wt., 1½ lbs. NET...1.79  
70 D 526. 6" Kit. Wt., 1½ lbs. NET...2.09  
70 D 527. 12" Kit. Wt., 2½ lbs. NET...2.49  
70 D 528. 14" Kit. Wt., 2½ lbs. NET...2.79  
70 DX 529. 20" Kit. Wt. 3½ lbs. NET 3.39  
70 DX 530. 28" Kit. Wt. 4 lbs. NET...3.79

**G** WALCO ANTI-STATIC RECORD SPRAY. Deposits thin anti-static film on record surface. Aids in preventing records from accumulating damaging and noise-producing dust and lint. In handy 6 oz. aerosol spray can. Shpg. wt., 7 oz.  
65 R 525. NET.....88c

**H** ESL "DUST BUG." Lightweight plastic arm with fine nylon brush, pad-type dust collector, and vial of pad cleaning fluid. Arm is suction-cup mounted to base. Nylon bristles loosen dust and dirt in record grooves and pad picks up particles. Fluid cleans pad, dissipates static. ½ lb.  
94 R 529. For Changers. NET.....4.75  
94 R 528. For Turntables. NET.....5.75

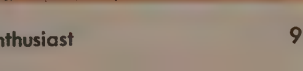
**J** LEKTROSTAT RECORD CLEANING KIT. Contains plastic bottle (1½ fluid oz.) of anti-static detergent fluid, and tufted wiping pad. Solution is applied to record; then wiped with pad. Shpg. wt., 5 oz.  
64 R 866. NET.....1.96

**M** WALCO STYLUS PRESSURE GAUGE. Uses laboratory-balance principle to achieve extreme accuracy from 2 to 10 grams. No springs or cams are employed. Simply set the correct weight for your cartridge (as recommended by the cartridge manufacturer) on the gauge. Then adjust the counterweight on pickup arm until arm is in balance. Shpg. wt., 6 oz.  
89 R 151. NET.....1.00

**N** FEDTRO "MICRO-GRAM" STYLUS PRESSURE GAUGE. Uses system of weights and balances to determine exact stylus pressure. Imported from Japan. Wt., 8 oz.  
59 R 948. NET.....1.98

**P** WEATHERS STYLUS GAUGE. Simple-to-operate, accurate measure of stylus pressure. Indicates stylus force in grams. Calibrated from 0 to 10 grams. 5 oz.  
69 R 232. NET.....2.00

For Safely Carrying Records



# Finest Quality Portable Phonographs

Features  
"Triple-Source"  
Stereo Speaker  
System



## Deluxe Portable Stereo Phonograph

NET

**\$109.50**

No Money Down

- One 8" Speaker; Two 6" Speakers with 1 3/4" "Whizzer" Cones
- Four-Speed Automatic Record Changer
- Turnover Cartridge with Diamond and Sapphire Needles

One 8" speaker in main cabinet reproduces bass tones from each channel of the stereo record; 6" speakers with 1 3/4" whizzer cones, in removable remote speaker cabinets, reproduce the medium and high tones. Each remote speaker is equipped with 12 feet of cable for up to 24 feet of stereo spread. Changer has heavy-duty motor and positive drive mechanism for constant speed and rumble-free operation. Plays all 4 speeds; equipped with 45-rpm spindle. Inter-mixes 7", 10" and 12" records of the same speed; automatic shutoff. Cartridge has diamond needle for LP's; sapphire for 78's. 10-watt amplifier. Wood cabinet in smoke gray and silver tweed leatherette. Main unit, 9 1/2 x 25 1/4 x 13 1/4"; remotes, 9 3/4 x 14 x 4 1/4". U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 40 lbs. 89 RU 192. No Money Down. NET. **109.50**

## Deluxe Stereo Phono—FM-AM Radio

NET

**\$129.50**

No Money Down

- One 6" Speaker; Two 5 1/4" Speakers with 1 1/2" "Whizzer" Cones
- Four-Speed Automatic Record Changer
- Turnover Cartridge with Diamond and Sapphire Needles

An extraordinary portable entertainment center for choice listening wherever you go. 4-speed automatic changer plays 7", 10" and 12" records; intermixes all size records of the same speed. Ceramic stereo cartridge has turnover diamond and sapphire styli. 6" speaker in main unit reproduces bass tones from both channels of stereo record; 5 1/4" speakers with 1 1/2" "whizzer" cones, in remote cabinets smoothly reproduce high frequencies. Each remote unit has 12 feet of cable for up to 24 feet of stereo spread. Sparkling clear reception on both FM and AM radio bands. Wood cabinet in stylish two-tone gray leatherette with gold accents. Main unit, 8 1/2 x 23 1/4 x 19 1/4"; remotes, 6 7/8 x 7 1/4 x 5 1/4". With 45-rpm spindle. U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 40 lbs. 89 RU 485. No Money Down. NET. **129.50**

Includes  
Stereo Changer,  
Turnover Cartridge,  
3 Speakers



Plays All  
Sizes and  
All Four  
Speeds



Low-Cost,  
Lightweight



## Automatic Stereo Phono

NET

**\$59.50**

No Money Down

- One 5 1/4" Speaker; Two 4" Speakers
- Plays All 4 Speeds

Outstanding 4-speed portable featuring three speakers—5 1/4" speaker in main cabinet; 4" speaker in each remote unit. Each remote comes with 8 feet of cable—allows up to 16 feet of stereo spread. Crystal stereo cartridge has turnover sapphire styli for LP's and 78's. Separate volume control for each channel plus dual tone control. All-wood case in charcoal gray and off-white leatherette. Main unit, 8 1/2 x 18 1/4 x 7 1/4". Remotes, 8 1/2 x 9 1/4 x 3 1/4". U.L. Approved. For 110-120 v., 60 cycle AC. Wt., 31 lbs. 89 RU 197. NET. **59.50**  
96 R 329. 45-Rpm Spindle. For above and unit at right. 10 oz. NET. **1.79**

## Automatic Monophonic Phono

NET

**\$39.50**

No Money Down

- Wide-Range 2-Way Speaker System
- Dual Styli for LP's and 78-rpm Records

Economy-priced automatic phono featuring top-quality VM 4-speed record changer. Has wide-range Alnico V speaker with "whizzer" cone for smooth reproduction of high frequencies. "Switch-O-Matic" control turns off both amplifier and turntable after last record has played. Crystal cartridge has turnover sapphire styli for best reproduction of both 78's and LP's. Plays at speeds of 16 2/3, 33 1/3, 45 and 78-rpm. Durable wood case is fabricoid-covered; grille and handle: in attractive, contrasting charcoal gray and ivory. 12 1/4 x 11 1/2 x 9 1/2". For 110-120 v., 60 cycle AC. Shpg. wt., 18 lbs. 89 RU 194. NET. **39.50**

## Single-Play 4-Speed Portable

NET

**\$19.50**

No Money Down

- Wide-Range Speaker with "Whizzer" Cone
- 45-rpm Adapter
- Dual Sapphire Styli

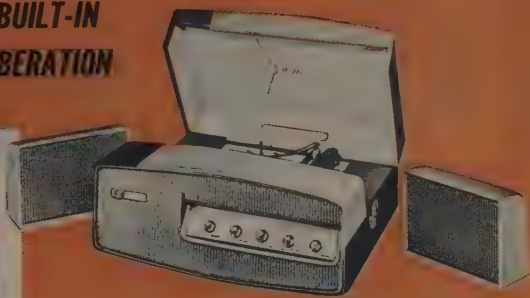
Low-cost, portable, manual phono that's just right for the den, recreation room or children's room. Attractively styled unit plays 7", 10" and 12" records at speeds of 16 2/3, 33 1/3, 45 and 78 rpm. Turntable has built-in adapter for 45-rpm records. 4" Alnico V P.M. dynamic speaker is augmented by 2" "whizzer" cone that reproduces middle and high frequencies. Lightweight pick-up arm has individual sapphire styli for LP's and 78's. Volume and tone controls. Charcoal and white case. Size, 12 1/2 x 6 1/2 x 10". U.L. Approved. For 110-120 volts, 60 cycle AC. Shpg. wt., 9 lbs. 89 RU 193. NET. **19.50**



# Portable Stereo Phonographs

Adds  
Another  
Listening  
Dimension

with **BUILT-IN  
REVERBERATION**



## Stereo Reverb Phono

NET

**\$99.50**

No Money Down

- Variable Reverberation Control
- One 6" Speaker; Two 5 1/4" Speakers
- Quality Ceramic Cartridge with Diamond Needle

experience the astonishing depth and dimension that reverb adds to your stereo or monophonic records. This superb unit has 4-speed changer; ceramic cartridge with diamond and sapphire styli; automatic shut-off, and three speakers. 6" speaker in main unit for bass response. 5 1/4" speaker in each remote for highs. Each remote with 12 ft. of cable. Bronze and ivory leatherette. Main unit, 9 1/2 x 20 1/2 x 10 1/2". Remotes, 6 1/2 x 6 1/2 x 4 1/4". 110-120 v., 60 cycle AC. 31 lbs. 9 RU 196. No Money Down. List \$129.95. NET..... **99.50**

## Deluxe Stereo Reverb Phono

NET

**\$139.50**

No Money Down

- One 8" Speaker; Two 6" Speakers with 1 3/4" "Whizzer" Cones
- Variable Reverberation Control
- Push-Pull Outputs—Plus 3rd Channel

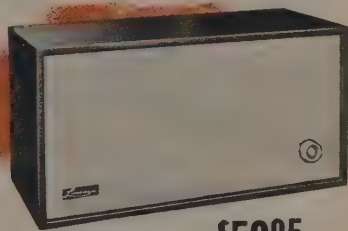
Superb styling, thrilling stereo plus an exciting new dimension—reverberation. 4-speed changer plays all sizes and speeds; has automatic shutoff and intermix feature. Turnover diamond and sapphire needles. 8" speaker in main unit; 6" remote speakers for mid-range and highs. Each remote with 12 feet of cable. Main unit, 9 3/4 x 25 x 19 1/4"; remotes, 9 3/4 x 14 x 1 1/2". For operation from 110-120 v., 60 cycle AC. Shpg. wt., 40 lbs. 89 RU 198. No Money Down. List \$179.95. NET..... **139.50**

## "ADD ON" REVERB/SPEAKER SYSTEM

Includes Reverb Unit, Power Supply, 8" Speaker and Enclosure



this device, connected to your radio, phono, TV, etc., delays part of the sound for 30th of a second—then blends it with the original sound to add startling "acoustic dimension. Attachment is fast and easy. Just connect reverb unit to speaker terminals and it's done. Built-in amplifier, 8" dual-diameter speaker and enclosure, and mechanical delay unit. 2—15-ft. cables for stereo amplifier. 10x20x13 1/4". Specify choice of mahogany, blonde or walnut. Shpg. wt., 22 lbs. 5 DU 738C. Specify Finish. No Money Down. NET..... **59.95**

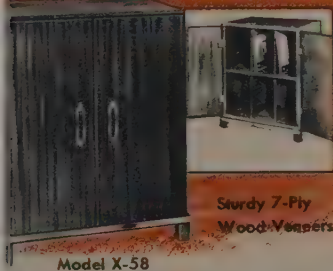


With 2—15-ft. cables to permit connection to stereo amplifiers

NET **\$599.50**

No Money Down

## Low-Cost Record Cabinets



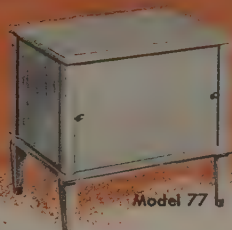
Model X-58

UNIVERSAL WOODCRAFTERS X-58 RECORD CABINET. Two-tier, 300-record capacity cabinet that blends well with traditional or contemporary decor. Constructed of sturdy, flammable 7-ply veneers with polished brass pulls and trim. Among its deluxe features are swinging doors equipped with fine quality magnetic lock catches and heavy brass hinges. Size, 32 1/2" high, 24" wide and 16 1/4" deep. Available in attractive, hand-rubbed mahogany or walnut finish—specify choice when ordering. Shpg. wt., 58 lbs. 70 DZ 603C. NET..... **39.95**



Model 130

UNIVERSAL WOODCRAFTERS 130 RECORD CABINET. Beautifully designed to give your records an attractive home, this all-wood cabinet features steel reinforcement for extra sturdiness; safety tracks for easy movement of the sliding doors. Constructed of durable 7-ply furniture veneers throughout. Gleaming brass hardware on doors and legs. Tasteful brass ferrules on legs. Size, 29 1/2 x 25 1/2 x 14 1/4". Available in attractive, hand-rubbed mahogany or walnut finish—specify choice when ordering. Wt., 33 lbs. 70 DZ 335C. NET..... **29.95**



Model 77

UNIVERSAL HIGH POINT 77 RECORD CABINET. Holds over 250 records inside; sturdy enough to support a TV set, too. Versatile, attractively styled unit is skillfully crafted for sturdiness. Complementing finish is a gleaming brass trim, brass hardware and ferrules. Size, 22 1/2" high, 24" wide and 18" deep. Shipped in knocked down form; requires just a few minutes to put together—without tools. Available in attractive, hand-rubbed mahogany or walnut finish—specify choice when ordering. Shpg. wt., 18 lbs. 70 DU 334C. NET..... **12.95**

Allied Has Record-Playing Equipment to Suit Every Budget

# NO MONEY DOWN

...on Allied's Credit Fund Plan. Select the records you want—or anything else that Allied sells—with no down payment!

## COMMAND

| Record No. | Record Title                                                 |
|------------|--------------------------------------------------------------|
| SD-808     | PERSUASIVE PERCUSSION, VOLUME II. Enoch Light and Orchestra. |
| SD-810     | PROVOCATIVE PERCUSSION, VOLUME II. Enoch Light Orchestra.    |
| SD-812     | BONGOS FLUTES AND GUITARS. Sounds of Los Admiradores.        |
| SD-816     | ROMAN GUITAR. Tony Molito interprets beautiful Latin themes. |
| SD-817     | PERSUASIVE PERCUSSION, VOLUME III. Command All-Stars.        |
| SD-818     | BIG BOLD AND BRASSY. Enoch Light and the Light Brigade.      |
| SD-822     | FARAWAY PLACES. Featuring Enoch Light and the Light Brigade. |

26 RR 716. Specify Record No. and Title. List, \$5.95. EACH... 4.48

## TIME

|        |                                                                   |
|--------|-------------------------------------------------------------------|
| S-2000 | PERCUSSION AND GUITARS. Pop standards arranged by Al Caiola.      |
| S-2006 | PERCUSSION SPANOL. Music from Spain arranged by Al Caiola.        |
| S-2010 | GERSHWIN AND GUITARS. 12 favorites played by Al Caiola Orchestra. |
| S-2014 | BONGOS AND BRASS. Orchestra conducted by Hugo Montenegro.         |
| S-2022 | CAMELOT—PERCUSSION ON STAGE. Hugo Montenegro and Orchestra.       |
| S-2036 | AMERICAN MUSICAL THEATRE, VOLUME III. Stage hits of 1935-1945.    |
| S-2038 | AMERICAN MUSICAL THEATRE, VOLUME IV. Stage hits of 1952-1960.     |

26 RR 694. Specify Record No. and Title. List, \$5.95. EACH... 4.48

## MGM

|         |                                                                  |
|---------|------------------------------------------------------------------|
| SE-3845 | SPECTACULAR PERCUSSION. Featuring Roger King Moziar.             |
| SE-3846 | SPECTACULAR HARMONICS. Adventure in exciting stereo sound.       |
| SE-3869 | CONNIE FRANCIS SINGS JEWISH FAVORITES.                           |
| SE-3871 | CONNIE FRANCIS SINGS MORE ITALIAN FAVORITES.                     |
| SE-3895 | SPECTACULAR STRINGS. Featuring David Rose and Orchestra.         |
| SE-3897 | SPECTACULAR SOUND OF HARRY JAMES. Big swinging orchestra.        |
| SE-3908 | THE PREVIN SCENE. Starring Andre Previn and exciting jazz piano. |

26 RR 686. Specify Record No. and Title. List, \$4.98. EACH... 3.74

## DOT

|       |                                                                       |
|-------|-----------------------------------------------------------------------|
| 25068 | HYMNS WE LOVE. Pat Boone sings "The Old Rugged Cross" and others.     |
| 25270 | MOONGLOW. Pat Boone sings title songs plus 13 other romantic ballads. |
| 25205 | GOLDEN SAXOPHONES. Billy Vaughn plays "Sentimental Me" others.        |
| 25276 | THEME FROM A SUMMER PLACE. Billy Vaughn plays film melodies.          |
| 25322 | LOOK FOR A STAR. Billy Vaughn plays Maria, Mona Lisa, etc.            |
| 25322 | DANCE WITH LAWRENCE WELK. "That Old Black Magic" others.              |
| 25359 | CALCUTTA. Lawrence Welk plays hit song and others.                    |

26 RR 754. Specify Record No. and Title. List, \$4.98. EACH... 3.74

## LONDON POPULAR

|        |                                                                     |
|--------|---------------------------------------------------------------------|
| PS-106 | GEMS FOREVER. Mantovani plays "True Love," "Hey There," others.     |
| PS-119 | WALTZ ENCORES. Mantovani plays "Charmaine," "La Ronde," etc.        |
| PS-124 | FILM ENCORES. Mantovani plays music from Hollywood films.           |
| PS-147 | CONTINENTAL ENCORES. Mantovani plays "La Vie En Rose," etc.         |
| PS-182 | THE AMERICAN SCENE. Music of Stephen Foster, etc. Mantovani.        |
| PS-202 | OPERAETTA MEMORIES. Mantovani and selections from Merry Widow, etc. |
| PS-224 | MUSIC FROM EXODUS AND OTHER GREAT THEMES. Mantovani.                |

26 RR 750. Specify Record No. and Title. List, \$4.98. EACH... 3.74

# CHOICE 12" STEREO RECORDS FROM Famous Label Stereo Recordings Featuring



## LONDON OPERAS—COMPLETE

| Record No. | Record Title                                                          |
|------------|-----------------------------------------------------------------------|
| OSA-1304   | IL TROVATORE. Tebaldi, del Monaco; Orchestra Suisse Romande.          |
| OSA-1309   | DAS RHEINGOLD. Flagstad, London Vienna Philharmonic Orch.             |
| OSA-1312   | COSI' FAN TUTTE. Della Casa; Dermott; Vienna Phil. Orchestra.         |
| OSA-1313   | AIDA. Tebaldi, Simonato; Vienna Philharmonic, von Karajan conducting. |
| OSA-1314   | MADAME BUTTERFLY. Tebaldi, Bergonzi; Orch. Santa Cecilia, Rome.       |
| OSA-1317   | MANON LESCAUT. Tebaldi, del Monaco; Orch. Santa Cecilia, Rome.        |
| OSA-1319   | DIE FLEDERMAUS. Guden, Tebaldi, Sperlberg, Nilsson; Vienna Phil.      |

26 RR 752. Specify Record No. and Title. List, \$17.95. EACH... 13.48

## STEREO FIDELITY

|          |                                                                     |
|----------|---------------------------------------------------------------------|
| SF-4300  | WORLD'S GREAT STANDARDS. Featuring the popular 101 Strings.         |
| SF-9900  | THE SOUL OF SPAIN, VOLUME II. Encore by the 101 Strings.            |
| SF-11100 | GAITE PARISIENNE. Offenbach interpreted by Le Ballet Francais Orch. |
| SF-11700 | POLKA EXTRAVAGANZA. Played by the Polkarama Orchestra.              |
| SF-13200 | PERSPECTIVES IN PERCUSSION, VOLUME I.                               |
| SF-13300 | PERSPECTIVES IN PERCUSSION, VOLUME II.                              |
| SF-13500 | EXODUS. Stirring original film score played by the 101 Strings.     |

26 RR 749. Specify Record No. and Title. List, \$2.98. EACH... 2.25

## WARNER BROS.

|         |                                                                        |
|---------|------------------------------------------------------------------------|
| WS-1205 | "THE KING AND I" FOR ORCHESTRA. Warren Barker plays Rodgers score.     |
| WS-1209 | SOUSA IN HI FI STEREO. Henry Mancini plays 12 march favorites.         |
| WS-1249 | THE WORLD'S TEN GREATEST POPULAR PIANO CONCERTOS. G. Greeley.          |
| WS-1272 | THE TROMBONES IN STEREO. Featuring 20 of the nation's top trombonists. |
| WS-1317 | THE DIXIELAND STORY, VOLUME I. Featuring Mally Malick Orch.            |
| WS-1363 | JOHN WITH BING AND SING. Bing Crosby and 33 singing hits.              |
| WS-1379 | THE BUTTON-DOWN MIND OF BOB NEWHART. Sensational comic.                |

26 RR 677. Specify Record No. and Title. List, \$4.98. EACH... 3.74

## MERCURY "Perfect Presence"

|          |                                                                 |
|----------|-----------------------------------------------------------------|
| PPS-6000 | LATIN PERCUSSION. Starring David Carroll and His Orchestra.     |
| PPS-6002 | PERCUSSION ORIENTALE. Starring David Carroll and His Orchestra. |
| PPS-6003 | VIVA CUGAT! Latin rhythms by the incomparable Xavier Cugat.     |
| PPS-6005 | HARMONICA HOLIDAY. Played by Richard Hayman and Orchestra.      |
| PPS-6006 | FREDERICK FENNEL CONDUCTS GERSHWIN.                             |
| PPS-6008 | PERCUSSION PARISIENNE. David Carroll and His Orchestra.         |
| PPS-6012 | EXCITING SOUNDS. Featuring The Globes Harmonics and Percussion. |

26 RR 689. Specify Record No. and Title. List, \$5.95. EACH... 4.48

## MERCURY "Living Presence"

|          |                                                                |
|----------|----------------------------------------------------------------|
| SR-60028 | THE HARMONICISTS IN THE LAND OF HI-FI. Jerry Murad's group.    |
| SR-60040 | IMPROVISATIONS TO MUSIC. Mike Nichols and Elaine May.          |
| SR-60079 | DICK CONTINO AT THE FABULOUS FLAMINGO. Top accordionist.       |
| SR-60152 | LET'S DANCE AGAIN. More of David Carroll and Orchestra.        |
| SR-60189 | JAN AUGUST PLAYS GREAT PIANO HITS. Great light listening.      |
| SR-60194 | PERCUSSION AT WORK. The artistry of Pete Rugolo and Orchestra. |
| SR-60248 | EDDIE HEYWOOD AT THE PIANO. The soft touch of a master.        |

26 RR 763. Specify Record No. and Title. List, \$4.98. EACH... 3.74

# COMPLETE LANGUAGE COURSES

Now—7 languages to choose from. Learn French, Spanish, German, Italian, Hebrew, Russian and Japanese—be prepared for a trip abroad. Thousands have learned through this quick and easy system.

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\$7.95

- Entire Course on 4-10", 33 1/3 rpm Records
- Includes Dictionary Plus Conversation Manual
- Based on System Developed by United States Government Department of War

Regardless of education or age, practically anyone can learn from these records. Each of the language courses consists of four 33 1/3 rpm 10" long play records, a comprehensive conversational manual and a dictionary. The 119-page comprehensive conversation manual is filled with hundreds of common, everyday phrases and their complete English translations. The complete common usage dictionary contains over 16,000 words and phrases—with translations from the language you choose to English and vice-versa.

The use of recorded lessons allows you to progress at whatever rate of speed you're best suited for. You can repeat lessons over and over again, just as often as you wish. You get a double impact of both hearing and reviewing the material to be learned. This system of foreign language instruction has been evaluated and approved by many schools in the United States and Canada. Books are each 6x10". Shpg. wt., each course, 3 lbs.

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26 RR 720. Specify Language Desired. List, \$9.95. NET PER COURSE... 7.95





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## SEND FOR YOURS TODAY!

| Record No. | Record Title                                                   |
|------------|----------------------------------------------------------------|
| 8-8004     | SING ALONG WITH MITCH. Mitch Miller Orchestra and Chorus.      |
| 8-8118     | FOLK SONGS—SING ALONG WITH MITCH. Mitch Miller Orch., Chorus.  |
| 8-8212     | CONCERT IN RHYTHM, VOLUME II, Ray Conniff and His Orchestra.   |
| 8-8291     | DESIGNS FOR DANCING, Les Elgart and His Orchestra.             |
| 8-8342     | MEMORIES SING ALONG WITH MITCH. Mitch Miller Orch. and Chorus. |
| 8-8356     | JERRY MURAD'S FABULOUS HARMONICATS. Enjoyable listening.       |
| 8-8376     | THE UNSINKABLE MOLLY BROWN. Kosteletzky plays show score.      |

### COLUMBIA

| Record No. | Record Title                                                       |
|------------|--------------------------------------------------------------------|
| 8-1578     | LET'S DANCE WITH THE THREE SUNS. Pop sounds by top trio.           |
| 8-1579     | STRAUSS WALTZES. Enchanting music by Melchior String.              |
| 8-1595     | TWO SIDES OF WINTERHALTER. Hugo Winterhalter and Orchestra.        |
| 8-1593     | CHET ATKINS IN HOLLYWOOD. Foremost guitar virtuoso plays pop hits. |
| 8-1910     | COMO SWINGS. Perry Como sings favorites up-tempo.                  |
| 8-2106     | MUSIC OF SIGNUM ROMBERG. Played by Melachro String.                |
| 8-2150     | JAMIE McILVER'S FAVORITE MUSIC OF HAWAII.                          |
| 8-2237     | NEW SOUND AMERICA LOVES BEST. Featuring Klein, Carilloneur.        |
| 8-2289     | WILD PERCUSSION AND HORNS A'PLENTY. Starring Dick Schory.          |

### RCA

| Record No. | Record Title                                                 |
|------------|--------------------------------------------------------------|
| 8-5822     | HOME—WITH LOVE. Featuring Jo Basile and his accordion.       |
| 8-5840     | JOURNEY PULED AND HIS HARMONICA GARG, VOLUME I.              |
| 8-5877     | AL HIRT AT DAN'S PIER 60. Top dixieland trumpeter.           |
| 8-5886     | AL MELGARD AT THE CHICAGO STADIUM ORGAN, VOLUME I.           |
| 8-5914     | ACCORDION POLKA. Jo Basile, accordionist, plays polkas.      |
| 8-5924     | LOUIE AND THE DUKES OF DIXIELAND. Featuring Louis Armstrong. |
| 8-5930     | SATCHMO PLAYS KING OLIVER. Hits from the era of ragtime.     |

### KAPP

| Record No. | Record Title                                                     |
|------------|------------------------------------------------------------------|
| 8-3007     | SOUTH OF THE BORDER. John Gart and Orchestra play Latin rhythms. |
| 8-3030     | WITH THESE HANDS. The piano artist of Roger Williams.            |
| 8-3016     | POLISH DANCE MUSIC. Played by The Claire Wilkowsky Orchestra.    |
| 8-3017     | FASCINATION. The voice of Jane Morgan with The Troubadours.      |
| 8-3056     | ALWAYS. Music for the quiet hours played by Roger Williams.      |
| 8-3059     | THE SOUND OF MUSIC. Pele King Chorale sings the B'way show.      |
| 8-3063     | HITS OF THE FABULOUS FIFTIES. Sung by Pete King Chorale.         |

### LIBERTY

| Record No. | Record Title                                                    |
|------------|-----------------------------------------------------------------|
| 8-7020     | LATIN FEVER. Featuring bongo virtuoso Jack Costanza and Orch.   |
| 8-7026     | POLKA FANTASY. Bruno Zelninski and His Band.                    |
| 8-7109     | BONGO FEVER. Jack Costanza and Orchestra play torrid.           |
| 8-7116     | EXOTICA, VOLUME III. The lush, tropical sounds of Martin Denny. |
| 8-7125     | BOO AND TRAVIS. Presenting an outstanding young folk song duo.  |
| 8-7158     | EXOTIC SOUNDS FROM THE SILVER SCREEN. Martin Denny Players.     |
| 8-7163     | EXOTIC SOUNDS VISITS BROADWAY. The Martin Denny Players.        |

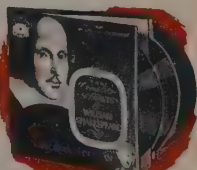
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An outstanding selection of 16½-rpm recordings. All on 7" discs, with 1½" center hole. Up to one full hour of playing time on each disc. Require the use of microgroove stylus. May be played on any 33½-rpm unit with adapter, listed below. *Specify Stock No., Book No. and Title when ordering.*

26 R 799. Model A-100 Adapter. Converts 33½-rpm speed to 16½. No wiring. 1 lb. NET. . . 1.40

| Title                                                                                                                | Lbs.  | Book No. | Stock No. | NET   |
|----------------------------------------------------------------------------------------------------------------------|-------|----------|-----------|-------|
| TIME-TO-TOE FAVORITES. 26 popular stories for children. Tenderly told by Jane Webb. (2 records) . . . . .            | 1 1/2 | C-301    | 26 RR 797 | 1.95  |
| ALICE IN WONDERLAND. Join Alice on her visit to Wonderland. Jane Webb plays Alice. (3 records) . . . . .             | 1 1/2 | GL-300   | 26 RR 796 | 3.28  |
| THE BEST OF MARK TWAIN. 17 hilarious stories and sketches. Read by Marvin Miller. (4 records) . . . . .              | 1 1/2 | C-302    | 26 RR 796 | 2.62  |
| THE WIZARD OF OZ. A carefree excursion into pure whimsy. By Marvin Miller and Jane Webb. (5 records) . . . . .       | 1 1/2 | C-303    | 26 RR 795 | 3.97  |
| WILD'S GARDEN OF VERSES. 52 poems by Robert Louis Stevenson. Read by Elinor G. Hoffman. (1 rec.) . . . . .           | 1 1/2 | C-304    | 26 RR 798 | .99   |
| THE BEST OF MARK TWAIN. 17 hilarious stories and sketches. Read by Marvin Miller. (4 records) . . . . .              | 1 1/2 | C-305    | 26 RR 798 | .99   |
| THE LITTLE PRINCE. A timeless classic. Two ageless legends. (1 record) . . . . .                                     | 1 1/2 | C-306    | 26 RR 798 | .99   |
| GULLIVER'S TRAVELS. The adventures of Gulliver come alive when told by Hal Gerard. (1 record) . . . . .              | 1 1/2 | C-307    | 26 RR 798 | .99   |
| THE GREAT TALES AND POEMS OF EDGAR ALLAN POE. 8 complete stories, plus poems. (4 records) . . . . .                  | 1 1/2 | GL-600   | 26 RR 792 | 3.28  |
| AMOUS POEMS. 74 best loved poems for family enjoyment. Read by Marvin Miller. (4 records) . . . . .                  | 1 1/2 | GL-601   | 26 RR 792 | 3.28  |
| THE WIZARD OF OZ. A carefree excursion into pure whimsy. By Marvin Miller and Jane Webb. (5 records) . . . . .       | 1 1/2 | GL-606   | 26 RR 791 | 3.97  |
| THE WIZARD OF OZ. A carefree excursion into pure whimsy. By Marvin Miller and Jane Webb. (5 records) . . . . .       | 1 1/2 | GL-607   | 26 RR 793 | 2.62  |
| THE WIZARD OF OZ. A carefree excursion into pure whimsy. By Marvin Miller and Jane Webb. (5 records) . . . . .       | 1 1/2 | GL-611   | 26 RR 791 | 3.97  |
| THE WRITINGS AND SPEECHES OF ABRAHAM LINCOLN. Read by Raymond Massey. (8 records) . . . . .                          | 2     | GL-612   | 26 RR 789 | 5.97  |
| THE COMPLETE NEW TESTAMENT. Authorized King James version. (26 records) . . . . .                                    | 6 1/2 | R-901    | 26 RR 787 | 19.97 |
| THE OLD TESTAMENT. Gen., Judges, Ruth, Esther, Psalms, Prov., Eccl., Sol., Isaiah. (26 records) . . . . .            | 6 1/2 | R-902    | 26 RR 787 | 19.97 |
| STORIES FROM THE NEW TESTAMENT. 26 favorite stories read with charm. (2 records) . . . . .                           | 1 1/2 | R-908    | 26 RR 788 | 1.95  |
| STORIES FROM THE OLD TESTAMENT. 21 treasured stories especially for young people. (2 records) . . . . .              | 1 1/2 | R-909    | 26 RR 788 | 1.95  |
| THE ADVENTURES OF PINOCCHIO. Marvin Miller creates voices and personalities for 31 characters. (5 records) . . . . . | 1 1/2 | C-310    | 26 RR 795 | 3.97  |
| THE ADVENTURES OF TOM SAWYER. Jeff Chandler recreates this timeless Mark Twain classic. (9 records) . . . . .        | 2 1/2 | C-311    | 26 RR 719 | 6.67  |



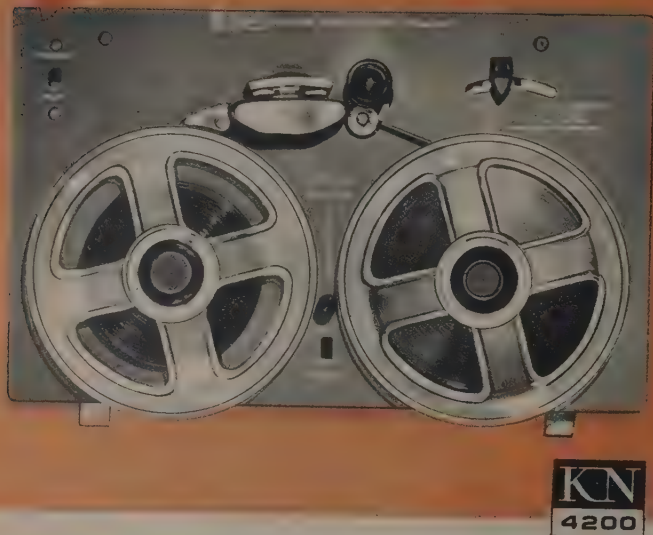
Be Sure to Specify Stock No., Record No. and Record Title When Ordering



# KNIGHT

## Tape Recording Equipment

**NEW**



### New KN-4200 Low-Cost Record/Play Tape Transport

EASIEST TO OPERATE—EASIEST TO ADD TO YOUR STEREO SYSTEM

ONLY  
**\$79.95**

**NO MONEY DOWN**

Here's the economy-priced tape transport that leads the field in "plus" features, that gives you the most for less! Highlighted by simplicity of operation, the KN-4200 is as easy to use and to add to your stereo system as a record changer. Its controls are downright simple—you change speeds by merely touching a button, and operate a single lever for Rewind, Stop, Forward and Fast Forward functions. Gives you superb 4-track stereo and monophonic recording; has a record/playback head, *plus* an erase head and provision for adding a third monitor head (listed below), whenever you wish. Plays through any hi-fi amplifier with tape head inputs (for recording, must be used with record preamp such as the Knight KN-4001B listed elsewhere in this section.) Easy-to-use slide switches for record/play and on-off.

For adding a new and thoroughly enjoyable source of music to your present stereo system at low cost, the moderately priced KN-4200 transport is an unexcelled value. And as a "starter" unit that can be used to form the nucleus of a complete tape playback and recording system, you'll find it easy to add inexpensive accessories at your convenience. *Two Speeds:* 7½ ips and 3¾ ips. *Wide-Range Response:* 30 to 14,000 cps  $\pm 2$  db at 7½ ips speed. *Flutter* ¼ *Wow:* less than 0.2% rms. *Signal-to-Noise Ratio:* 55 db or better. Size, 9½x15½x5¾". Panel is color-styled in matte beige. Made in U.S. For 110-120 v., 60 cycle AC. Shpg. wt., 16 lbs. 35 DU 726. **No Money Down. ONLY**.....

**79.95**

**ACCESSORY THIRD-HEAD PACKAGE.** Converts the KN-4200 to 3-head operation. Includes hardware and instructions. Shpg. wt., 6 oz. 90 R 877. **ONLY**.....

**16.95**

**KNIGHT TAPE TRANSPORTS  
ARE GUARANTEED FOR  
ONE FULL YEAR**

For your complete protection, all Knight tape units are unconditionally guaranteed for one year from time of purchase. They're best buys!

**NEW 4-TRACK, 2-SPEED  
TAPE TRANSPORT VALUE!**

*outperforms all others*

**COMPARE THESE FEATURES**



**LAMINATED RECORD PLAYBACK HEADS.** Cost more, but last far longer without loss of response or recording quality.



**TWO SPEEDS.** Change from 7½ ips to 3¾ ips by simply pushing a button; tops in convenience.



**TAPE LIFTER AND PRESSURE PADS.** Maintain optimum contact between tape and heads.



**PRECISION BALANCED FLYWHEEL.** Dynamically balanced capstan flywheel greatly reduces wow and flutter.

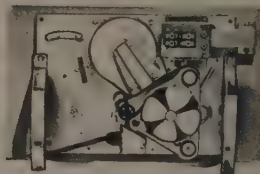


**HEAVY-DUTY MOTOR.** Dependable and entirely free from vibration; with fan for efficient cooling.



**COMPLETE WITH FRAME.** A sturdy frame acts as an upright stand—no base is required for the KN-4200 Transport.

**YOU CAN SEE THE QUALITY**



All working parts are enclosed, protected from dust—all electrical connections are shielded by metal plates.



**SAVE WITH  
KNIGHT TAPE**

There's a Knight tape for every recording need, at money-saving low cost. Check the tape section.



## Unbeatable Savings

### DELUXE TAPE TRANSPORT; PROFESSIONAL FEATURES

#### INCORPORATES 3 MOTORS,



#### 3 SEPARATE HEADS,



#### 7 PUSHBUTTON CONTROLS



### CUSTOM CONSTRUCTION



Rear view of the KN-4000 shows the neat arrangement of the 3 motors. All parts are easily accessible—there are no belts, pulleys or levers. The entire unit is engineered for easiest installation and use.

BUY ON EASY TERMS. All Knight Tape Recording equipment is available on Allied's new Credit Fund Plan. No down payment is required—up to 50% more buying power!

#### KNIGHT DYNAMIC MIKE VALUE

Improve the quality of your home recordings with this excellent dynamic mike. Fully described in Microphone section.



## Studio Performance and Effects



### KN-4000 Deluxe Record/Play Tape Transport

ABSOLUTELY NOTHING FINER AT THE PRICE



ONLY  
**\$134<sup>50</sup>**  
NO MONEY DOWN

Get professional performance and special effects with unbelievable ease and accuracy, right in your own home. Three separate, precision heads as used in recording studios, provide erase, record and playback functions. Three heavy-duty, 4-pole motors—two direct-drive spooling motors and a capstan motor—control tape perfectly. When used with the Knight KN-4001B record/play preamp listed on the following page, you can get any type of 4-track stereo and monophonic recording. Sound-on-sound, echo effect, musical accompaniment, add-a-track, and other sounds limited only by your imagination. Has professional type laminated heads for best response. Positive DC dynamic braking—even tapes with a thin base are instantly stopped at high speed without spillage, stretch or breakage.

Seven neatly grouped, pushbutton controls handle all functions: Speed Selector (3¾ and 7½ ips); Off-On; Run; Fast Forward; Reverse; and Standby. 3-head arrangement permits monitoring from playback head while recording. Standby control disengages idler from capstan while capstan motor is left running. Also features automatic shut-off when tape runs out; easy-to-read digital tape counter; handsome Desert Beige and Sand Gold styling. *Response:* 25 to 15,000 ±2 db at 7½ ips. *Flutter & Wow:* 0.25% at 7½ ips. *Signal-to-Noise Ratio:* 55 db. Size, 13½x15¼x7". Made in U.S. For 110-120 v., 60 cycle AC. Shpg. wt., 23 lbs.

35 DU 709. No Money Down. ONLY.....134.50

THE MODEL KN-4001B STEREO RECORD/PLAY PREAMPLIFIER, recommended for use with both Knight Transports, is fully described on the following page.



#### Carrying Case for KN-4000 and KN-4001B

Make tape recordings away from home—carry your Knight Tape Transport and Preamp, plus mikes, cables, etc., in this roomy portable case. Has smart looking cream and beige styling; scuff-proof outer covering; positive snap locks; and centered carrying handle. Size, 20x16½x11½". Shpg. wt., 20 lbs.

35 DX 783. No Money Down. ONLY.....24.95



## Renowned Record-Play Preamplifier

WITH NEWEST FEATURES FOR HIGH-QUALITY STEREO TAPING

**KN**  
**4001B**



FOR PROFESSIONAL TAPING AND PLAYBACK WITH ANY STEREO TAPE TRANSPORT

### Model KN-4001B Stereo Tape Record/Play Preamplifier

ONLY  
**\$139.95**

**NO MONEY DOWN**

- Unexcelled for Use With Knight KN-4000, KN-4200 Tape Transports or Others of Similar Quality
- New Highly Accurate, Calibrated Twin VU Meters
- New Adjustable Equalization to Match Any Tape Heads for Best Response

#### NEW CALIBRATED VU METERS



Accurate readings of record and playback level—2-color scales calibrated —20 to +3 db.

#### CLUTCH-TYPE LEVEL CONTROLS

Concentric Record-Level controls for individual or simultaneous adjustment of mike and auxiliary inputs.



#### PROFESSIONAL EFFECTS



It's easy to make studio-quality, sound-on-sound multiple recordings ... with the KN-4001B preamp and any 3-head transport.



Enhance your recording with echo-chamber effect—no external cable patching is necessary.

#### NO MONEY DOWN

Get the tape recording equipment you want now, on our new, liberal Credit Fund Plan.

An improved version of a famous unit, the new KN-4001B Tape Preamp gives you all the controls and features necessary for stereo tape recordings of superlative fidelity ... as well as many unusual recorded effects. Sound-on-sound multiple recording (with 3-head transports), echo chamber acoustic effect that can be added during recording, musical accompaniment to vocals, and others. Carefully engineered for maximum flexibility in recording and playback, it features: concentric clutch-type microphone and auxiliary recording level controls to permit individual channel regulation plus master gain adjustment—with mixing of mike and aux inputs on each channel; 6-pos. selector for choosing left channel, right channel or stereo record and playback functions—permits A-B switching to compare left and right channel recorded material, etc. The KN-4001B also incorporates concentric, clutch-type controls for playback volume and balance.

Individual adjustment is provided for bias and erase voltages and record head current on each channel—assures exact match to any tape heads. Also features A-B monitor switch for comparing tape with source. Equalization switch on front panel for 7½ and 3¾ ips speeds, equalizes in both playback and record functions—internal adjustment permits matching any recording head to produce NAB-equalized tapes. *Bias Oscillator*: 70 kc. *Response*: ±2 db, 20 to 20,000 cps. *Specifications measured with KN-4000 Transport*. *Response*: at 7½ ips, ±3 db, 30 to 15,000 cps; at 3¾ ips, ±3 db, 30 to 10,000 cps. *Hum & Noise*: —45 db. *Size*, 4¼ (plus ¾" legs) x 15½ x 9". Includes four 36" audio cables. Less case, below. Made in U.S. For 110-125 v., 60 cycle AC. Shpg. wt., 15 lbs.

35 DU 812. For 2 or 3-Head Transports. *No Money Down*. ONLY.....139.95

83 YU 916. KN-4001B in Kit Form. (For 3-Head Transports). ONLY.....89.95

20 YU 278-2. KN-4001B in Kit Form. (For 2 or 3-Head Transports). ONLY 89.95

83 YX 936. Metal Case for KN-4001B. Wt., 5 lbs. ONLY.....4.95

#### FOR CUSTOM TAPING

... and added enjoyment, make the Knight KN-4000 and KN-4001B tape units part of your stereo music system.

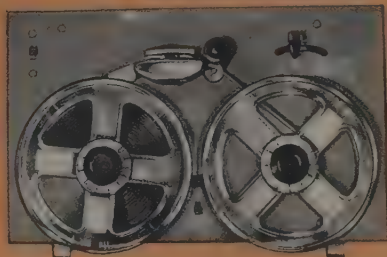




**you get everything  
you need for  
professional results**



**KN-4000 Deluxe Tape Transport (Optional)**



**Optional Carrying Cases Available**

**You Save \$18.72**  
**off regular catalog prices**

ONLY  
**\$214<sup>95</sup>**  
With KN-4200  
Transport

**ONLY**  
**\$214<sup>95</sup>**  
With KN-4200  
Transport

Those made in professional studios. Here's what you get:

|               |                     |         |
|---------------|---------------------|---------|
| Night KN-4200 | Tape Transport..... | \$79.95 |
|---------------|---------------------|---------|

Night-Kit Stereo Record/Play Preamp Kit,  
(Less Case).....\$89.95

|                                          |         |
|------------------------------------------|---------|
| Brush® Model BA-205B Stereo Headset..... | \$23.37 |
|------------------------------------------|---------|

Two Electro-Voice Model 729 Microphones.....\$28.82

### Three 1200-ft. Reels of Knight KN-15

Recording Tape.....\$5.13

**Tape Accessory Kit** (Includes Tape Splicer,

Cleaning Cloth, 12 Clips, 30 Adhesive

Labels, Tape Head Cleaner, Book on Edit-

ing Tapes, 100" Roll of Splicing Tape, and

Tape Threader).....\$6.45

TOTAL REGULAR CATALOG PRICE.....\$233.67

|                          |          |
|--------------------------|----------|
| YOURS FOR ONLY . . . . . | \$214.95 |
| YOU SAVE . . . . .       | \$127.00 |

YOU SAVE .....\$18.72

The KN-4200 has professional-type laminated record and playback heads, pushbutton speed changing, other easy-to-use controls. Preamp has two calibrated VU meters that display exact recording levels, and many other professional features. Microphones plug directly into preamp; headset is tops for monitoring use. For 110-120 v., 60 cycle AC. Shpg. wt., 39 lbs.

20 HF 280. *No Money Down. ONLY*.....214.95

20.45 201. Complete System as Above but with Factory

20 HF 281. Complete System as Above, but with Factory-

**Assembled Preamp. Save \$23.72! ONLY.....259.95**

**20 HF 282. Complete System with KN-4000 Tape Transport and Preamp Kit.** Features the deluxe KN-4000 (3 motors, 3 separate precision heads for erase, record and playback functions), in place of the KN-4200 Transport. Shpg. wt., 49 lbs. **Save \$23.27! ONLY.....264.95**

00-45-200-G 1st Section - Above but with Factory

20 HF 283. Complete System as Above, but with Factory-Assembled Program. Save \$28.27! **ONLY 309.95**

Assembled Preamp. Save \$28.27! ONLY.....309.95  
 82 XX 824 Metal Case for Preamp, 5 lbs ONLY 4.95

35 DY 724 Portable Wood Case for KN-4200 Transport

35 DX 724. Portable Wood Case for KN-4200 Transport and Program. 16 1/4 x 16 x 10 3/4". Wt. 15 lbs. **ONLY 21.95**

35 DY 783 Portable Wood Case for KN-4000 Transport

35 DX 783. Portable Wood Case for KN-4000 Transp. and Preamp. 20x16½x11½". Wt., 15 lbs. **ONLY 24.95**

## Allied's Own Outstanding Values in Knight Microphones for Tape Recording



ONLY  
**\$34<sup>50</sup>**  
 NO MONEY  
 DOWN

For C

ONLY  
**\$34<sup>50</sup>**  
NO MONEY  
DOWN

Get flat response and wide range with this excellent mike. Cardioid pickup pattern minimizes background noises, lets you record just the sounds you want. With off-on switch; wired for high imp. Less connector. Wt., 2 lbs.

**93 \$ 479. ONLY..... 34.50**

93 \$ 479. ONLY..... 34.50

**No Money  
Down**

**ONLY  
\$2295**

A vintage-style microphone with a silver grille and a black body, mounted on a black, tiered circular stand. The microphone is angled upwards and to the right.

## No Money Down

ONLY  
\$2295

Excellent value—comes equipped with desk stand, 10-ft. cable, screw-type connector and phone plug adapter already attached. Connects to 90% of all tape recorders. Omni-directional pickup pattern and wide frequency response. Shpg. wt., 4 lbs.

**94 S 097. ONLY 22.95**

94 S 097. ONLY.....22.95



# KNIGHT

## Low-Priced, Versatile Tape Recorders . . .

### IDEAL FAMILY INSTRUMENT

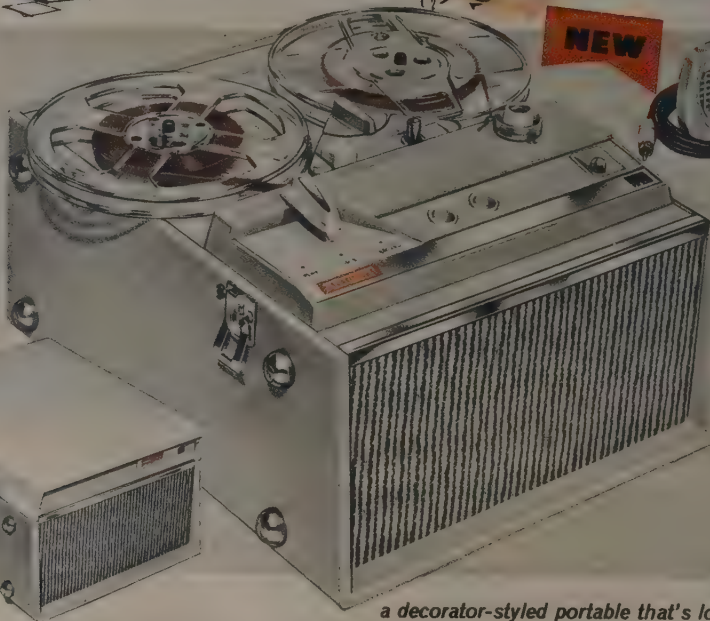
There's no end to the enjoyable uses a tape recorder at home provides—record family members, friends, baby's voice, etc.

### UNLIMITED SCHOOL USES

Voice and diction training, music lessons, foreign language classes—are just a few of many school applications.

**KN**  
**4110**

Complete in Handsome Carrying Case



Includes Mike and 7" Reel of Knight KN-15 1½-Mil Acetate Recording Tape

*a decorator-styled portable that's loaded with features*

## Monophonic Tape Recorder with 4-Track Stereo Playback

ONLY

**\$99.95**

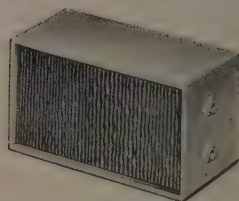
**NO MONEY DOWN**

- Records and Plays Monophonically at 3½ & 7½ Ips Speeds
- Plays 4-Track Stereo Tapes Through Any Second Channel—Your Own Hi-Fi System, KN-4160 Amplifier-Speaker, etc.
- Powerful 6-Watt Amplifier Provides Room-Filling Sound
- In Portable Carrying Case with Storage Compartment

Easy to operate, and with a host of features, the new KN-4110 offers 2-speed, 2-track monophonic recording and playback, plus built-in stereo preamp. It can be used to play latest 4-track stereo tapes through your stereo music system. Or, it can be used as one channel of sound, and the KN-4160 at right (or your own monophonic hi-fi system, TV set, etc.), as your second channel of sound. Powerful 6-watt amplifier and built-in speaker system (5" woofer, 4" tweeter, electrical crossover network), for plenty of rich sound.

Slower 3½" speed is just right for recording lengthy speeches, conferences, lectures, etc.; 7½" speed enables you to record music with hi-fi response. Tone control adjusts sound from crisp, clear speech to full-bodied musical reproduction. A single, easy-to-use lever selects "Play-Idle-Record" functions. Record safety interlock prevents accidental erasure of tapes. Has neon recording level indicator; lever control for rewind which locks in. Screened deck plate with counter numerals shows elapsed tape footage and aids in cueing or editing. Fast, drop-in tape threading.

**2 Output Jacks:** for external speaker system; for second-channel external amplifier (includes second-channel cable). **Response:** 50 to 10,000 cps. **Wow & Flutter:** less than 0.3%. **Signal-to-Noise Ratio:** 40 db. Blue and gray case, 8x11½x15". Made in U.S. With mike, 7" reel of tape, 7" take-up reel and patch cord. For 110-120v., 60 cycle AC. Carrying wt., 19 lbs. Wt., 24 lbs. 35 DU 806. No Money Down. ONLY **\$99.95**



### AMPLIFIER/SPEAKER UNIT FOR STEREO PLAYBACK WITH THE MODEL KN-4110

**MODEL KN-4160.** Acoustically and electrically matches the speaker system and amplifier built into the KN-4110—and perfectly matched in styling and appearance too! Provides second channel of sound for playback of stereo tapes; has volume and tone controls. Contains: 6-watt amplifier; 5" woofer and 4" tweeter with crossover network. Complete with 8-ft. cable and AC power cord. Blue and gray; matching grille cloth. 5½x11¼x6¼". Wt., 6 lbs. 35 DU 808. ONLY **\$24.50**

Buy Knight—For the Finest Values in Money-Saving, Tape Recording Units



# Money-Saving, High-Quality Recorders for Every Requirement

## INVALUABLE FOR BUSINESS

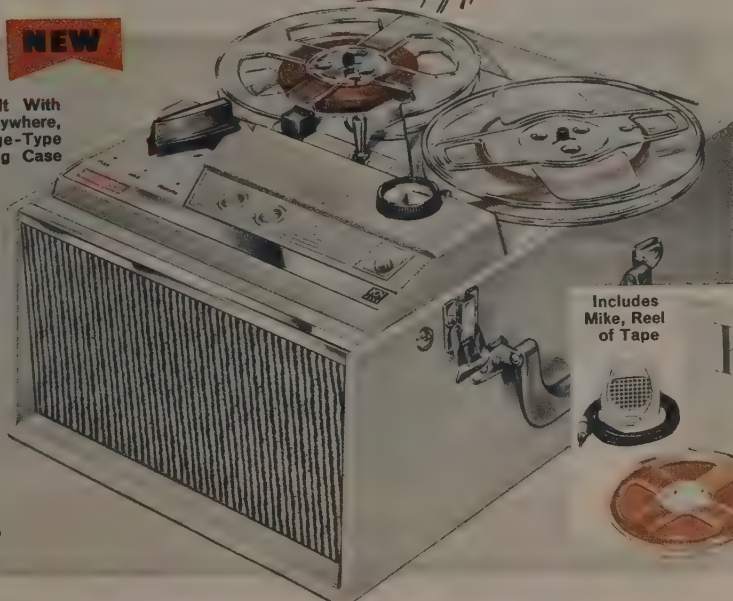
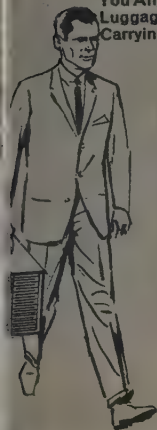
Unexcelled time-saving in recording of conferences, dictation, "memorizing" of important data, hundreds of other uses.

## FOR CHURCHES AND CLUBS

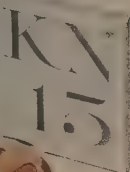
Playback of sacred music through church P.A. system; taping "minutes" of club meetings; social affairs; etc.

**NEW**

Take It With  
You Anywhere,  
Luggage-Type  
Carrying Case



Includes  
Mike, Reel  
of Tape



*dependable, bargain-priced portable with excellent fidelity*

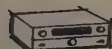
## Best Value, 2-Speed Monophonic Tape Recorder

ONLY

**\$79<sup>95</sup>**

**NO MONEY  
DOWN**

- Gives You Extra-Long Playing Time at  $3\frac{1}{2}$ " Speed
- Splendid Sound from Its 5" Wide-Range Speaker
- Pushbutton Interlock Prevents Accidental Erasure
- Single Lever for "Play-Idle-Record" Functions
- Accurate Neon Light Recording Level Indicator



### MAKE OFF-THE-AIR RECORDINGS

For hours of fun—has input for recording from microphone, radio, phonograph or TV set...



### FOR SPEECH OR MUSIC TRAINING

Hi-fi response of the KN-4035 is a perfect "mirror" of the voice, as well as music. Pays for itself in usefulness!



### MONEY-BACK GUARANTEE

Every Knight tape recorder is unconditionally guaranteed for one full year from date of purchase.

**NO MONEY DOWN**... take up to 4 months to pay! Our new Credit Fund Plan gives you extra buying power... lets you get the Knight recorder of your choice right now.

Get started in tape recording with this high-quality, lowest-cost unit. In a single, compact carry-about portable, the new KN-4035 gives you brilliant performance and all the features you need for highly realistic, 2-track monophonic tape recordings. You'll have no trouble learning to operate this little beauty either—its controls are designed and arranged to make it the height of simplicity and a genuine pleasure to use. It features: two fingertip-selected speeds,  $3\frac{1}{4}$  and  $7\frac{1}{2}$  ips; husky 6-watt amplifier for plenty of power without distortion; built-in 5" full-range speaker for natural sound; neon level indicator for accurate recording; and easy-to-understand, easy-action controls.

Has input jack for recording from wide-range microphone (supplied), radio, TV set or phonograph; plus output jack for playback through external speaker. Fast wind and fast rewind controls with lock-in rewind position—uniform braking on both tape reels prevents tape stretch or breakage. Single lever selects "Play-Idle-Record" functions. Takes reels to 7" and has tape guide post to assure proper tape alignment.

**Response:** 50 to 10,000 cps. **Wow & Flutter:** less than 0.3%. **Signal-to-Noise Ratio:** 40 db. Includes microphone, 7" reel of Knight KN-15  $1\frac{1}{2}$ -mil acetate recording tape, and 7" take-up reel. Size,  $8\frac{1}{2} \times 11\frac{1}{8} \times 15$ ". Styled in attractive Horizon blue and gray. Made in U.S. For 110-120 v., 60 cycle AC. Carrying wt., 19 lbs. Shpg. wt., 24 lbs.

**35 DU 805. No Money Down ONLY.....79.95**

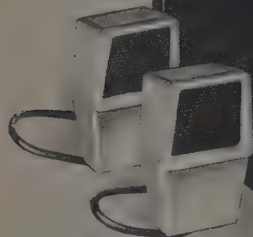


# Complete Stereo Tape Recording "Studio" in a single, lightweight carrying case

**KN**  
**4310**

With 7" Reel  
of Knight  
KN-15 Tape

**KN**  
**15**



2—Electro-Voice  
Ceramic Mikes

Portable  
Carry-About  
Case

make and play your own stereo or monophonic tapes

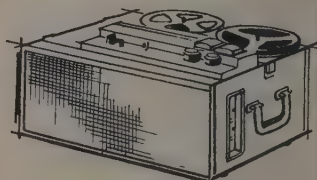
## Model KN-4310 Complete Stereo Tape Recorder

RECORDS 2 AND 4-TRACK STEREO TAPES AT ALL 3 SPEEDS—1%, 3¾ AND 7½ IPS

ONLY  
**\$239.95**  
NO MONEY DOWN

- The Finest Tape Recorder Ever Offered at This Price!
- Record and Play Your Own Stereo Tapes; Record the New FM Stereo Multiplex Broadcasts
- May Be Used as a Tape Deck for Playing Recorded Tapes Through Your Stereo Music System

### LOADED WITH FEATURES!



- Two 8-Watt Power Amplifiers
- Two Preamplifier Sections
- Two Built-in 6" Speakers
- Complete Control Facilities for each channel
- Two Professional VU Meters
- Reel of Knight KN-15 Tape
- Take-up Reel

**SPECIFICATIONS. Response:** (Record-Play Cycle): at 7½ ips, ±3 db, 50 to 15,000 cps; at 3¾ ips, ±3 db, 50 to 10,000 cps; at 1½ ips, 50 to 5000 cps. **Signal-to-Noise Ratio:** 45 db. **Wow & Flutter:** less than 0.3% at 7½ ips. **Distortion:** less than 1% at normal listening levels.

A precision hi-fi tape recorder in a single, lightweight carrying case, the KN-4310 offers more in features and performance than any other tape recorder in this price range. It provides 2 and 4-track stereo recording and playback, plus 2-track monophonic recording and playback at all 3 speeds—1½, 3¾ and 7½ inches per second. Controls are designed to let you make even "first-try" tape recordings of impressive quality!

A host of deluxe features make recording easy and give you full command of the KN-4310. Fingertip speed selector automatically provides the correct equalization for precise tonal balance at each speed; digital tape counter assures fast, simplified cuing and editing; automatic shut-off mechanism stops recorder when tape runs out; two sets of volume and tone controls for precise adjustment of each channel; two professional type VU meters for perfectly balanced stereo recording; two jacks for external speakers.

Two 8-watt amplifier sections, with inverse feedback circuitry for lowest distortion, provide push-pull output of 16 watts. Two built-in 6" speakers offer excellent sound across the entire audio range. Has two Hi-Z inputs for stereo recording from mikes, and two high-level inputs for stereo recording from radio or phono. Carrying weight is only 30 pounds. Includes two mikes with 6-ft. cables, two patch cords, one reel of Knight KN-15 recording tape, and 7" take-up reel. Carrying case in black and aluminum. Size, 9¾x18x14½". Made in U.S. For 110-120 v., 60 cycle AC. Shpg. wt., 37 lbs.

35 DU 807. No Money Down. ONLY.....239.95



# SELECTED 4-TRACK REEL-TO-REEL TAPES

## NO MONEY DOWN

You don't need ready cash to expand your tape music library—use our Credit Fund Plan. Minimum order, \$20.00.

## TOP LABELS TOP ARTISTS

UP TO 25% OFF LIST!



Enlarge your stereo tape collection at savings of up to 25% off list price! No matter what your musical taste may be, you're sure to find tapes you'll enjoy! All tapes listed below are recorded at 1 1/2 ips, and are for playback on machines employing 4-track, in-line tape heads. When ordering be sure to Specify Stock No., Tape No. and Tape Title. Av. wt., 12 oz.

### BEL CANTO

| Tape No. | Tape Title                                                       |
|----------|------------------------------------------------------------------|
| ST-57    | MR. MUSIC MAKER. Lawrence Welk plays Side by Side, Always, etc.  |
| ST-58    | BILLY VAUGHN PLAYS THE MILLION SELLERS. In the Mood, other hits. |
| ST-60    | BLUE HAWAII. Billy Vaughn on live of Golden Dreams, title song.  |
| ST-70    | LOUIS AND KEELY. Keely Smith sings; Louis Prima's Orchestra.     |
| ST-76    | GOLDEN SAXOPHONES. Billy Vaughn plays Near You, Elmer's Tune.    |
| ST-97    | THEME FROM A SUMMER PLACE. Billy Vaughn's Orchestra; film hits.  |
| ST-103   | LOUIS PRIMA—HIS GREATEST HITS. Famous Prima band arrangements.   |
| ST-107   | DANCE WITH WELK. Lawrence Welk, Maybe, Begin the Beguine, etc.   |
| ST-108   | PAT'S GREAT HITS. Vol. II. Pat Boone sings Sugar Mom, others.    |
| ST-112   | BENNY GOODMAN RIDES AGAIN. Mission to Moscow, Stereo Stomp, etc. |
| ST-116   | MY MEMORIES. Melvaine and his Orchestra play Falling Leaves.     |
| ST-117   | AHMAD JAMAL. Jazz trio on Taboo, Should I, Autumn in New York.   |

6 RR B94. Specify Tape No. and Title. List, \$7.95. EACH.....5.96

### CAPITOL

| Tape No. | Tape Title                                                                                                                  |
|----------|-----------------------------------------------------------------------------------------------------------------------------|
| FW-352   | MUSIC FOR LOVERS ONLY. Jackie Gleason; Alone Together, etc.                                                                 |
| FW-595   | OKLAHOMA! Motion picture sound track, including Overture, Oh, What a Beautiful Morning, Out of My Dreams, Kansas City, etc. |
| FW-694   | CAROUSEL. Motion picture sound track, Carousel Waltz, others.                                                               |
| FW-740   | THE KING AND I. Motion picture sound track, Shall We Dance, etc.                                                            |
| FW-824   | LOVE IS THE THING. Nat "King" Cole sings At Last, Stardust.                                                                 |
| FW-845   | FRED WARING AND THE PENNSYLVANIANS IN HI-FI. I Hear Music, etc.                                                             |
| FW-1022  | SOUNDS OF THE GREAT BARDES. Glen Gray and the Casa Loma Orchest.                                                            |
| FW-1053  | FRANK SINATRA SINGS FOR ONLY THE LONELY. Nelson Riddle's Orch.                                                              |
| FW-1069  | CAN CAN DANCE WITH ME. Frank Sinatra with Billy May's Orchestra.                                                            |
| FW-1361  | CAN-CAN. Soundtrack from the motion picture starring Frank Sinatra, Shirley MAZURKE, Maurice Chevalier, Louis Jourdan.      |

6 RR B39. Specify Tape No. and Title. List, \$7.98. EACH.....6.75

### COLUMBIA

| Tape No. | Tape Title                                                       |
|----------|------------------------------------------------------------------|
| CQ-300   | JOHNNY MATSIS. More of Johnny's great hits; Percy Faith Orch.    |
| CQ-304   | MOMENTS TO REMEMBER. Norman Luboff Choir on romantic tunes.      |
| CQ-306   | MARCO ALONG WITH MITCH MILLER. Rousing "sing-along" melodies.    |
| CQ-312   | SATURDAY NIGHT SING ALONG WITH MITCH MILLER. Silver Moon, etc.   |
| CQ-319   | "S MARVELOUS. Ray Conniff Orchestra on I Love You, and others.   |
| CQ-329   | SING ALONG WITH MITCH MILLER. That Old Gang of Mine, others.     |
| CQ-331   | THE GREAT SOUND OF LES ELGART. The dance band with unique sound. |
| CQ-341   | JEALOUSY. Percy Faith's Orchestra plays title tune, others.      |
| CQ-354   | CAMELOT. Andre Previn and his dazzling jazz piano treatment.     |
| CQ-360   | CHERRY PINK AND APPLE BLOSSOM WHITE. Jerry Murda's Harmonicists. |
| CQ-365   | THINKING OF YOU. Andre Previn's listenable piano stylings.       |
| CQ-367   | DREAM AWHILE. Bobby Hackett's soft-swinging orchestra.           |

6 RR B32. Specify Tape No. and Title. List, \$6.95. EACH.....5.90

### COMMAND

| Tape No.  | Tape Title                                                         |
|-----------|--------------------------------------------------------------------|
| RS/AT 808 | PERSUASIVE PERCUSSION. VOL. II. Terry Snyder and All Stars.        |
| RS/AT 809 | BONGOS. The Los Admiradores (Six bongos, one guitar).              |
| RS/AT 810 | PROVOCATIVE PERCUSSION. VOL. II. Enoch Light and Brigade.          |
| RS/AT 812 | BONGOS/FLUTES/GUITARS. Los Admiradores; Caravan, etc.              |
| RS/AT 814 | PERTINENT PERCUSSION. Cha-cha-cha with the Enoch Light group.      |
| RS/AT 815 | THE PERSUASIVE TROMBONE OF URBIE GREEN. Smooth dance band.         |
| RS/AT 816 | ROMAN GUITAR. Featuring Tony Molitola on La Strada, Anna.          |
| RS/AT 817 | PERSUASIVE PERCUSSION. VOL. III. The Command All Stars.            |
| RS/AT 818 | BIG, BOLD AND BRASSY. Enoch Light and the Light Brigade.           |
| RS/AT 820 | REEDS AND PERCUSSION. Command All Stars; Serenata, Pavanne.        |
| RS/AT 821 | PROVOCATIVE PERCUSSION. VOL. III. More of Enoch Light.             |
| RS/AT 822 | FARAWAY PLACES. Enoch Light and the Light Brigade round the world. |

6 RR B60. Specify Tape No. and Title. List, \$7.95. EACH.....5.96

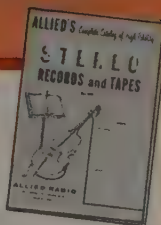
### DOT

| Tape No.  | Tape Title                                                     |
|-----------|----------------------------------------------------------------|
| DST-25064 | MELODIES IN GOLD. Billy Vaughn Orch. Indian Love Call, Dream.  |
| DST-25068 | HYMNS WE LOVE. Pat Boone sings The Old Rugged Cross, others.   |
| DST-2515  | WHEN YOU'RE SMILING. Eddie Peabody, banjo; Roses of Picardy.   |
| DST-25241 | BE MY LOVE. Keely Smith sings title tune, Fascination, others. |
| DST-25251 | SONGS OF THE ISLANDS. Lawrence Welk Orch. Buddy Merrill sings. |
| DST-25265 | SWING YOU LOVERS. Keely Smith sings I Love You, Talk to Me.    |
| DST-25274 | STRICTLY FOR DANCING. Lawrence Welk plays Evelyn, Angus, etc.  |
| DST-25281 | WAKING AND LADE. Axel Storvick Orch. Moonlight on the Ganges.  |
| DST-25322 | LOOK FOR A STAR. Billy Vaughn Orch. Snowfall, Mona Lisa, etc.  |
| DST-25349 | POPDOWNERS. Billy Vaughn Orch. Never on Sunday, film themes.   |
| DST-25355 | POLYNESIAN PERCUSSION. Lawrence Welk Orch. Hawaiian War Chant. |
| DST-25359 | CALCUTTA. Lawrence Welk Orch. Title song, April in Portugal.   |

6 RR B56. Specify Tape No. and Title. List, \$7.95. EACH.....5.96

## FREE! ALLIED'S DISCOUNT STEREO RECORD AND TAPE CATALOG

For a complete listing of records and tapes, get our Discount Record and Tape Catalog No. 211. It's free—simply write in and ask for Stock No. 26 RR 999.



### LONDON

| Tape No.  | Tape Title                                                    |
|-----------|---------------------------------------------------------------|
| LPM-70000 | A JOURNEY INTO STEREO SOUND. Demo.: music and sounds.         |
| LPM-70002 | STRAUSS WALTZES. Mantovani; Blue Danube, Emperor, etc.        |
| LPM-70005 | MY VERY GOOD FRIENDS, THE BANDLEADERS. Ted Heath Orch.        |
| LPM-70018 | THE AMERICAN SCENE. Mantovani; early American melodies.       |
| LPM-70020 | SHOW BOAT & PORGY AND BESS. Edmund Ross Orchestra.            |
| LPM-70021 | BIG BAND BLUES. Ted Heath on St. Louis Blues and others.      |
| LPM-70023 | FAMOUS CONTINENTAL MARCHES. Band of Grenadier Guards.         |
| LPM-70030 | LOVE LETTERS IN THE SAND. Frank Chacksfield Orchestra.        |
| LPM-70033 | THE SOUND OF MUSIC. Full cast stage production, chorus.       |
| LPM-70039 | THE BIG BAND DIXIE SOUND. Traditional jazz favorites.         |
| LPM-70042 | MUSIC FROM EXODUS AND OTHER GREAT FILMS. Mantovani.           |
| LPM-70045 | ITALIA MIA. Mantovani; Italian favorites, beautifully played. |

26 RR B76. Specify Tape No. and Title. List, \$6.95. EACH.....5.22

### MGM

| Tape No. | Tape Title                                                    |
|----------|---------------------------------------------------------------|
| 3716     | SECRET SONGS. David Rose and Andre Previn team up again.      |
| 3778     | HARRY JAMES & HIS NEW SWINGIN' BAND. Shiny Stockings, etc.    |
| 3791     | CONNIE FRANCIS SINGS ITALIAN FAVORITES. You Alone, Volare.    |
| 3800     | BEN HUR. Selections from the musical score of this epic film. |
| 3810     | SOUND OF MUSIC. Benny Goodman; selections from the musical.   |
| 3817     | MUSICAL WORLD OF RODGERS & HAMMERSTEIN. Orndel conducts.      |
| 3844     | SPECTACULAR BRASS. Arranged, conducted by Roger King Mozie.   |
| 3845     | SPECTACULAR PERCUSSION. Roger King Mozie. Love for Sale, etc. |
| 3846     | SPECTACULAR HARMONICAS. Opus One, Tuxedo Junction, Can-Can.   |
| 3848     | HARRY JAMES. TODAY! Undiscovered, Satin Doll, Jersey Bounce.  |
| 3853     | CONNIE FRANCIS SINGS SPANISH/LATIN-AMERICAN FAVORITES.        |
| 3856     | SPECTACULAR ACCORDIONS. Camilleri Accordions and Orchestra.   |

26 RR B51. Specify Tape No. and Title. List, \$7.95. EACH.....5.96

### RCA

| Tape No. | Tape Title                                                          |
|----------|---------------------------------------------------------------------|
| FTP-1000 | PERRY COMO SINGS. With Mitchell Ayres Orch. Mood Indigo, etc.       |
| FTP-1001 | NEW GLENN MILLER ORCHESTRA. Ray McKinley directs this big band.     |
| FTP-1002 | MISTER GUITAR. Chet Atkins' Teenstyle: Sleep Walk and others.       |
| FTP-1009 | DICK SCHORY'S NEW PERCUSSION ENSEMBLE. Speak Low and 11 others.     |
| FTP-1013 | ARTHUR MURRAY'S MUSIC FOR DANCING. Ray Carter, Murray's TV Orch.    |
| FTP-1014 | BOB AND RAY ON A PLATTER. Late weather, sports, Wally Ballou.       |
| FTP-1018 | THREE SUNS: TWILIGHT MEMORIES. Twilight Time, Peg O' My Heart.      |
| FTP-1019 | RALPH HUNTER CHOIR: GILBERT & SULLIVAN SONGBOOK. 18 songs.          |
| FTP-1052 | MELACHRINO: MORE MUSIC FOR RELAXATION. Softly played mood music.    |
| FTP-1057 | MARTY GOLO ORCHESTRA: IT'S MAGIC. Unique "stereo action" recording. |
| FTP-1063 | DICK SCHORY. RUNNIN' WILD. Top percussion from a headliner.         |
| FTP-1070 | NORMAN LUBOFF CHOIR. First Victor recordings by a great group.      |

26 RR B61. Specify Tape No. and Title. List, \$7.95. EACH.....5.96

### TIME

| Tape No. | Tape Title                                                             |
|----------|------------------------------------------------------------------------|
| 2000     | PERCUSSION AND GUITARS. Arranged by Al Caola. Jazz Picnic, etc.        |
| 2006     | PERCUSSION ESPANOL. Arranged by Al Caola. Diello Lento, etc.           |
| 2013     | MARIA MCPARTLAND PLAYS MUSIC OF LEONARD BERNSTEIN. Jazz piano.         |
| 2014     | BONGOS AND BRASS. Hugo Montenegro Orch. Slaughter on 10th Avenue.      |
| 2015     | RODGER'S HART PERCUSSION AND STRINGS. George Siravo's Orch.            |
| 2018     | CHA CHAS FOR DANCING. Hugo Montenegro's Orch. Tea for Two, etc.        |
| 2022     | CAMELOT PERCUSSION ON STAGE. Hugo Montenegro's Orch. Show tunes.       |
| 2026     | PERCUSSION ESPANOL. Vol. 2. Frenesi, Valencia, Espana, etc.            |
| 2028     | IMPACT BRASS! Jim Tyler's Orch. Hernandez's Hideaway, Harlem Nocturne. |
| 2029     | ACCORDION-DOMINIC CORTESE. Pina Polo, Tanga Della Gioiosa.             |
| 2031     | GYPSY STRINGS. MUSIC OF HAWAII. Kermil Leslie's Orch. Two Guitars.     |
| 2032     | DO RE MI. Jim Tyler and Mary Laws Orchestras. Fireworks, etc.          |

26 RR B50. Specify Tape No. and Title. List, \$7.95. EACH.....5.96

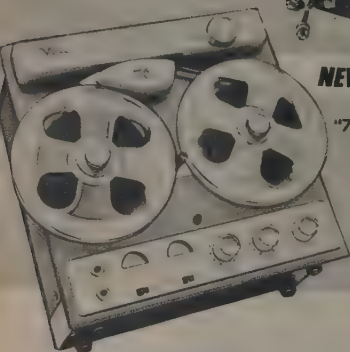
### WARNER BROS.

| Tape No. | Tape Title                                                         |
|----------|--------------------------------------------------------------------|
| 1205     | THE KING AND I. Warren Barker's Orchestra on this hit score.       |
| 1211     | WHEN YOU'RE SMILING. Buddy Cole on the Hammond organ.              |
| 1243     | RHYTHM AND BLUES. The Bluebelles in Paris. Heintz conducting.      |
| 1249     | TEN GREATEST POP PIANO CONCERTOS. George Greeley at the piano.     |
| 1272     | TROMBONES, INC. Downbeat-rated 5 stars; 20 top trombonists.        |
| 1291     | POP PIANO CONCERTOS. George Greeley with Warner Bros. Orchest.     |
| 1308     | FOR AWAY PLACES. Warren Barker's Orchestra on mood music.          |
| 1363     | JOIN BING AND SING ALONG. Bing and Chorus sing 31 melodies.        |
| 1366     | MOST BEAUTIFUL MUSIC OF HAWAII. George Greeley and the Outriggers. |
| 1377     | THE SOUND OF MUSIC. Trapp Family Singers on this hit score.        |
| 1379     | THE BUTTON-DOWN MIND OF BOB NEWHART. Fast-rising new comic.        |
| 1393     | BOB NEWHART: THE BUTTON-DOWN MIND STRIKES BACK! More fun.          |

26 RR B43. Specify Tape No. and Title. List, \$7.95. EACH.....5.96

Be Sure to Specify Stock No., Tape No. and Tape Title When Ordering

# Stereo Compact Tape Recorders



**"76 COMPACT"**

NET

**\$199<sup>50</sup>**

**NO MONEY DOWN**

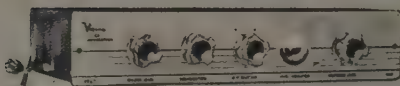
- 4-Track Stereo & Mono
- Built-In Record Preamp with Dual VU Meters
- Single Rotary Control for Play, Stop, Rewinds

Modern, versatile and easy to use, the "76" lets you add brilliant 4-track stereo and monophonic recordings to your music system. The 2-speed transport has two 4-track heads, one for erase, and another for recording and playback. A self-contained stereo recording preamplifier enables you to make your own tape recordings for playback through the tape head inputs of any high-fidelity amplifier.

**SPECIFICATIONS:** Speed:  $7\frac{1}{2}$  and  $3\frac{3}{4}$  ips. Reel Size: up to 7" maximum. Frequency Response:  $\pm 3$  db, 25-16,000 cps at  $7\frac{1}{2}$  ips. Signal-to-Noise Ratio: 55 db or better. Inputs: mike and tape head (on front panel); high-level (Radio/TV/Phono) on rear panel. Outputs: playback head and monitor (third head for monitoring can be added to deck when required). Controls: single, rotary-type Motion control for Rewind, Stop, Play, Fast Forward; Tape Speed Selector; Stereo-Mono; Volume, for each channel; and Function for On-Off, Play, and Record.

Designed for custom installations; can be mounted vertically or horizontally. Two-tone gray.  $13\frac{1}{2} \times 13\frac{1}{2} \times 6\frac{1}{4}$ " deep; require  $12\frac{1}{2}$ " square cutout. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 28 lbs.

90 RU 718. NET.....**199.50**

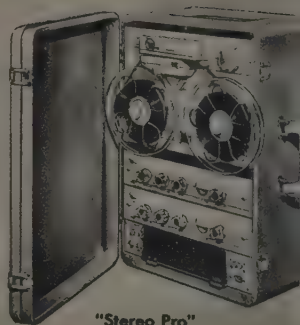
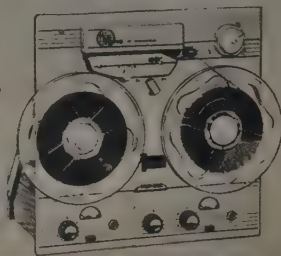


RP-62C

**NEW!**

**"76 Compact" Recorder**

**Series 85 "Stereo Compact"**



**"Stereo Pro"**

## "STEREO COMPACT" RECORDERS

Quality stereo recorders in one compact package. Consist of two Viking RA 72 recording preamps and a Series 85 transport. Features: "Flutter-filter" belt-drive; high and low-level inputs; digital counter; tape lifters; "sound-on-sound" recording. Requires preamp when used with amplifiers not having tape head input.  $\pm 3$  db, 30-14,000 cps. For wall or furniture mounting.  $14\frac{1}{2} \times 9\frac{1}{2}$ " deep; require  $12\frac{1}{2}$ " square cutout. For 110-120 v., 60 cycle AC. 25 lbs.

90 RU 704. "Stereo Compact" Model ESQ. Has 2-track stereo and mono phonic erase-record-play facilities; and plays 4-track stereo tapes. NET.....**297.50**  
90 RU 703. "Stereo Compact" Model RMQ. 4-track stereo and mono erase-record-play and monitor, plays 2-track. NET....**297.50**

## RP-62 RECORD-PLAY PREAMPLIFIERS

RP-62C Record-Play Preamp. Has bias oscillator, electronray record indicator. For 85 RQ and 85 ES.  $2\frac{3}{4} \times 12\frac{1}{2} \times 6\frac{1}{4}$ ". For 110-120 v., 60 cycle AC. Wt.,  $7\frac{1}{2}$  lbs.

92 R 771. No Money Down. NET **77.50**

RP-62C-3 Record-Play Preamp. Similar to RP-62C, but has extra head lead. For 85 ESQ. RMQ transports.

90 R 717. No Money Down. NET **79.50**

RP-62VU Record-Play Preamp. Like RP-62C, but has VU meter. 600-ohm output. Matches either Viking dual-track and stereo heads, or full-track erase-record heads. 19" rack mtg. panel. Wt.,  $7\frac{1}{2}$  lbs.

92 RX 770. No Money Down. NET **119.00**

92 R 913. D381A Reel Retainers. Holds down reels when deck is mounted vertically. Wt., 5 oz. NET PER PAIR.....**1.00**

## "STEREO PRO" RECORDER

A professional-quality, portable stereo tape recorder using an "85" transport and two RP-62C preamps. Has separate inputs for mike and tuner or mixer-preamp, "sound-on-sound" recording, erase-defeat switch, etc. Response,  $\pm 3$  db, 30-14,000 cps. S/N ratio, 55-60 db. Distortion under 2%. Features "hot-spot" peaking for precise bias and erase. Case, brown scuff-resistant plastic with reinforced corners.  $20\frac{3}{4} \times 13\frac{1}{4} \times 10\frac{1}{4}$ ". For 110-120 v., 60 cycle AC. 40 lbs.

90 RZ 708. Stereo Pro ES. 2-track stereo-mono erase-record-play. NET.....**344.50**

90 RZ 709. Stereo Pro ESQ. As above, plus 4-track stereo playback. NET.....**374.50**

90 RZ 710. Stereo Pro RMQ. 4-track stereo and monophonic erase-record-play-monitor; plays 2-track tapes. NET.....**374.50**

## SERIES 85 TAPE TRANSPORTS

Precision, 2-motor units.  $7\frac{1}{2}$ ,  $3\frac{3}{4}$  ips.  $\pm 3$  db, 30-14,000 cps. 55 db S/N. Flutter and wow under 0.2%. Max. reel size, 7". Play through any amplifier with tape head in input. To record, use a RP-62 pre-amp (2 for stereo).  $12\frac{1}{2} \times 9\frac{1}{2} \times 5\frac{1}{2}$ ". For 110-120 v., 60 cycle AC. Shpg. wt.,  $12\frac{1}{2}$  lbs.

90 RU 716. Model 85 RMQ. 4-track stereo and monophonic erase-record-play-monitor; plays 2-track tapes. NET.....**179.50**

92 RU 765. Model 85 RQ. 2-track monophonic erase-record-play; and plays 4-track stereo tapes. NET.....**158.50**

92 RU 766. Model 85 ES. 2-track stereo-mono erase-record-play. NET.....**152.00**

91 RU 864. Model 85 ESQ. 2-track stereo and mono erase-record-play; and plays 4-track stereo tapes. NET.....**179.50**

**for LANGUAGE TEACHING! Complete Lab Equipment**  
**a low-cost, top-quality, easy to use language system**



Language training components that easily connect together to form complete language systems for classes of any size. For a survey of your requirements, and a money-saving recommendation—without cost or obligation—phone or write Allied's School Division. We will be happy to confer with you to help you select the system "just right" for your budget, and best fitted for the efficient use of your program. To be sure that you are getting full value for every dollar spent, contact:

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# Quality Tape Recording Equipment

# AMPEX

970

2010

960

Completely Portable  
Stereo Music System

|      |     |      |
|------|-----|------|
| 2010 | 960 | 2010 |
|------|-----|------|

Adjustable Directors for  
Best Stereo Effect



## MODEL 970 STEREO MONITOR RECORDER

NET

**\$595.00**

**NO MONEY  
DOWN**

- Built-In Amplifier/Speakers
- Plays both 2 and 4-Track Stereo and Monophonic Tapes
- Records 2-Track Stereo and Mono

Matching  
Amplifier-Speaker

NET

**\$495.00**

**NO MONEY  
DOWN**

## MODEL 960 "CAPRICE" STEREO HI-FI RECORDER

- Dual Concentric Record and Playback Volume Controls
- Automatic End-of-Reel Stop
- Digital Counter for Easy Indexing of Selections
- Illuminated Recording Meter

Both stereo recording and playback are featured in this outstanding dual-speed tape unit. Separate 2-track record and erase heads, as well as a universal playback head (with a lever to select 2- or 4-track playback), are installed to provide "up-to-the-minute" stereo reproduction. Its versatile design permits "sound on sound" recording—many unusual effects can be achieved. Ideal for taking stereo broadcasts "off-the-air"—perfect choice for building a library of professional-quality tape recordings. Accommodates up to 7" reels; operates at 7½ and 3¾ ips. Frequency response, 30-20,000 cps at 7½ ips; 30-15,000 cps at 3¾ ips. Complete with two-tone gray, scuff-resistant portable case. 9x17½x15". Plays back through external power amplifiers and speakers—will drive high-impedance headsets directly. Less playback amplifiers and speakers (see Model 2010, below); less mikes. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 38 lbs.

91 RU 897. No Money Down. NET.....**495.00**  
90 RU 719. Model 952 Stereo Recorder. As above, but less portable case. Ready for custom installation. Shpg. wt., 36 lbs. NET.....**449.50**

## MODEL 910 HIGH-FIDELITY RECORDER

Same as Model 960 described above, but for making monophonic recordings only. Identical stereo playback features. Less playback amplifiers and speakers (below), and mikes. Shpg. wt., 38 lbs.

91 RU 858. No Money Down. NET.....**399.50**

## MODEL 2010 MATCHING AMPLIFIER-SPEAKER

Quality 10-watt hi-fi amplifier and special 8" speaker in acoustically designed case to match Series 900 recorders. Two required for stereo. Inputs for Tape, TV, Phono, Tuner. 9x17½x15". For operation from 110-120 v., 60 cycle AC. Shpg. wt., 35 lbs.

91 RU 859. No Money Down. NET.....**199.50**

## MODEL 934 PROFESSIONAL-QUALITY STEREO TAPE PLAYER

Professional-quality tape transport for high-fidelity playback of stereo-phonetic and monophonic tapes. Head shifter lever provides precise alignment of playback head for both 2 and 4-track stereo. The 2-channel head is engineered to professional broadcast and recording studio standards—surfaces are lapped flat within 10 millionths of an inch for uniform performance throughout life of head; head gap length, 90 millionths of an inch. *Dynamic Range:* ±2 db, 50-15,000 cps at 7½ ips. *Flutter and Wow:* less than .25% rms at 7½ ips. *Speed:* 7½ and 3¾ ips. *Reel Size:* 7" maximum. *Operating Controls:* Fast Forward/Rewind, Play, Tape Speed Selector, and Stop Button. Stop button stops tape motion in playing or fast rewind functions. Also has automatic, end-of-reel stop feature. Output provided from each channel of playback head. Less preamplifier (see Model 936, below). 13x15x7½". For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 30 lbs.

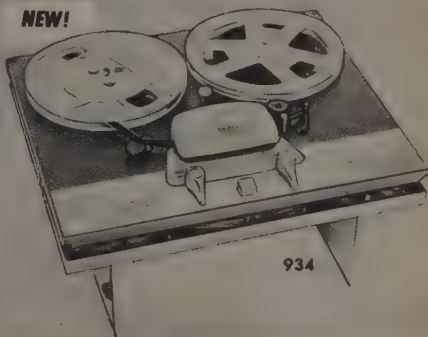
90 RU 782. No Money Down. NET.....**199.50**

## MODEL 936 STEREO HI-FI PLAYER

As above, but with built-in stereo playback preamplifier. Equalizes and amplifies the signal for direct connection to power amplifiers and audio control centers. Has On-Off and Volume Controls in addition to those listed above. Shpg. wt., 33 lbs.

90 RU 783. No Money Down. NET.....**249.50**

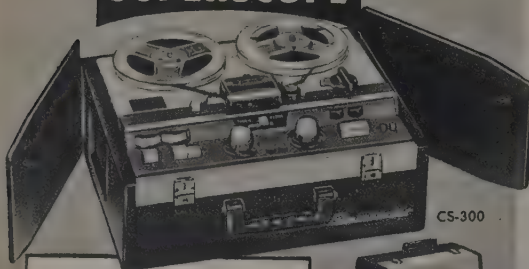
**NEW!**



934

Allied Always Features the Latest Tape Recording Equipment

# SONY SUPERSCOPE



CS-300

Everything for Easy, Efficient Tape Handling—Robins Tape Accessories Kit Containing: Tape Splicer with Splicing Tape, Tape Threader, Head Cleaner, Jockey Cloth, Reel Labels and Clips; and Informative Booklets



20 Reels  
Knight  
Recording  
Tapes



Splicer



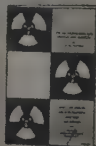
10 Reels Lincoln  
4-Track Stereo  
Tapes



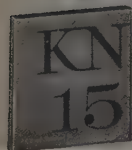
262-SL Recorder



Splicer  
with Editing  
Kit



5 Reels  
Lincoln  
Stereo  
Tapes



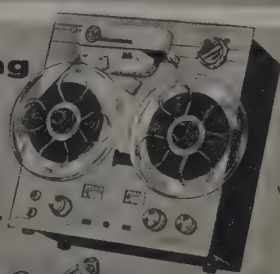
10 Reels  
Knight  
Recording  
Tape



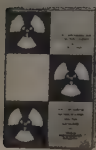
5 Reels  
Lincoln  
Stereo  
Tapes



20 Reels  
Knight  
Recording  
Tape



"86"



Taping  
Booklets



KN-4500  
Mikes

Splicer  
with Kit

## Stereo Hi-Fi Tape Ensembles

### SONY CS-300 HI-FI TAPE SYSTEM

NET  
**\$409.95**

SAVE \$56.54

2 or 4-track stereophonic tapes through its self-contained amplifier and speaker system.

You're off to a good start with these carefully selected Lincoln stereo tapes of popular numbers, classical music and show tunes and, you can add to your tape library many hours of recording: made on world-famous Knight Tape. All accessory items, including tape splicer, labels, head cleaner, and editing and recording information, are provided in the Robins Kit.

System includes: deluxe Model CS-300 Stereo Tape Recorder with two dynamic mikes, and carrying case; twenty reels of Knight KN-15 Recording Tape; a Robins Model TK-4STD Tape Accessories Kit containing: Splicer, Head Cleaner, Reel Labels, and Booklet; "Tape Editing and Splicing"; the new Robins TE-128 Booklet; "How to Get the Most Out of Your Tape Recording"; and ten reels of Lincoln 4-Track Stereo Tapes—My Fair Lady, The Sound of Music, Pervasive Percussion, Stereo Moods, The Romantic Themes of Tchaikovsky, Chopin Piano Concerto No. 2, Erotic Percussion, Easy Listening, Favorites from Far Away Places, and South Pacific. Shpg. wt., 70 lbs.

20 HF 645. No Money Down. NET. .... 409.95

### SONY 262-SL HI-FI TAPING OUTFIT

NET  
**\$209.95**

SAVE \$27.44

Just connect the Sony to any amplifier-speaker system for playback of both 2 and 4-track stereo tapes. Complete 4-track monophonic recording and playback facilities, along with a second channel playback preamp, are incorporated in a remarkably compact carrying case (see page 113 for a full description). There's no need to wait to enjoy stereo. These taping "extras" provide everything you need. Savings are impressive, too—\$27.44 over the cost of the individual items!

Here's what you get: Sony Model 262-SL 2-Speed Recorder with case, earphone and dynamic mike; ten reels of Knight KN-15 Recording Tapes; Robins Model TK-4STD Tape Accessories Kit; and TE-128 Booklet; and five reels of Lincoln 4-Track Stereo Tapes—My Fair Lady, The Sound of Music, Pervasive Percussion, Stereo Moods, and The Romantic Themes of Tchaikovsky. Shpg. wt., 37 lbs.

20 HF 646. No Money Down. NET. .... 209.95

### VIKING 86-COMPACT RECORDING OUTFIT

NET  
**\$349.95**

SAVE \$33.64

You're ready to make your own "true-to-life" stereo recordings with this outstanding Tape Recording Outfit—an exceptional value at a savings of \$33.64 over the total price of the individual items purchased separately! Providing a full-range frequency response of 20-20,000 cps,  $\pm 3$  db, the "86-Compact's" improved stereophonic record-playback preamplifier, coupled with the famed Viking tape transport, permits a variety of recording applications—4-track stereo or monophonic, front-panel selection for sound-on-sound, and "special effects."

Playback heads are wired to "Monitor" connectors on the back of the preamp section to permit monitoring directly from the tape when used with a music system amplifier or monitor input. A head-shift control allows playback of 2-track as well as 4-track tapes. Using an up-to-date recording circuit, the "86-Compact" assures excellent results when recording from multiplex broadcasts, other tapes, phono records, and microphones.

Complete outfit consists of: Viking 86 Stereo-Compact Model RMQ; two Knight KN-4500 Microphones with desk-stand and 10-ft. of cable; twenty reels of Knight KN-15 Recording Tape; Robins, Model TK-4STD Tape Accessories Kit, and TE-128 Booklet.

The Knight KN-4500 microphones are supplied ready-for-use—just plug them into the front-panel "mike" jacks on the Viking 86 Stereo-Compact for superb voice and music reproduction. Each reel of Knight KN-15 tape gives you a full hour of 4-track stereo recording time at  $7\frac{1}{2}$  ips speed. When using the slower speed,  $3\frac{3}{4}$  ips, you can monophonically record up to four hours on a single 7" reel. Everything you need for easy tape editing and care—including the "know-how"—is included in the Robins, TK-4STD Accessories Kit and booklets. Shpg. wt., 55 lbs.

20 HF 647. No Money Down. NET. .... 349.95

20 HF 648. Viking 86 Stereo-Compact ERQ Taping Outfit. Same as above, but with ERQ Compact. Has wide-gap, 2-track erase and record heads, with 4-track playback head. Head-shift elevator permits playback of 2 or 4-track tapes. NET. .... 349.95



# Quality Recorders by

**SONY**  
**SUPERSCOPE**

## DELUXE MODEL CS-300 STERECORDER

NET

**\$391.50**

NO MONEY DOWN

Many features include: built-in 6-watt stereo amplifier and speakers; adjustable directors for best stereo realism; pushbutton mode selection; automatic tape lift on fast forward and rewind; 2 VU meters; hysteresis synchronous drive motor; mixing facilities on each channel for sound-on-sound recording; instant stop lever for precise cuing and editing; digital footage counter; automatic shut-off; bass boost switch. Response:  $\pm 2$  db, 50-15,000 cps at  $7\frac{1}{2}$  ips;  $\pm 2$  db, 50-10,000 cps at  $3\frac{3}{4}$  ips. Flutter and Wow: under 0.15% at  $7\frac{1}{2}$  ips. Separate mike and aux. input controls on each channel for mixing. Output (dual): 8 and 600 ohms. With carrying case, 2 dynamic mikes. 9x20x14". Imported from Japan. For 110-120 v., 60 cycle AC. Shpg. wt., 42 lbs.

90 RZ 700. No Money Down. NET..... 391.50



With built-in speakers, carrying case, 2 dynamic mikes

## MODEL 262D STEREO TAPE TRANSPORT

NET

**\$87.70**

NO MONEY DOWN

Digital tape counter and tape lifters. Takes 7" reels. Size,  $5\frac{1}{2}$ x13x10". Imported from Japan. For operation from 110-120 volt, 60 cycle AC. Shpg. wt., 11 lbs.

90 RU 795. No Money Down. NET..... 87.70

90 RU 571. Walnut Base for 262D. Shpg. wt., 4 lbs. NET..... 9.95



Model 262D Transport

MODEL 262-SL TWO-SPEED RECORDER. As above, but with a fully self-contained monophonic record/playback preamp, monitor power amplifier and speaker, and second channel playback preamp. Features add-a-track and sound-on-sound—a perfect aid for language and music studies. Includes case, earphone, and dynamic mike. 7x14x11". Shpg. wt., 21 lbs.

90 RU 705. No Money Down. NET..... 195.50

## MODEL 101 TRANSISTORIZED RECORDER

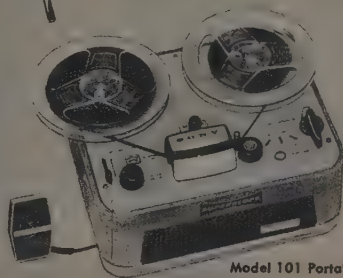
NET

**\$97.50**

NO MONEY DOWN

For mike and auxiliary units; external speaker output. Reel capacity: 7". With tape lifters, case, speaker and dynamic mike. 6 $\frac{1}{2}$ x13x10". Imported from Japan. For 110-120 v., 60 cycle AC. Shpg. wt., 20 lbs.

90 RU 706. No Money Down. NET..... 97.50



Model 101 Portable

**NEW**

**EICO**

## TRANSISTORIZED Stereo Tape Deck

### 4-TRACK STEREO DECK IN SEMI-KIT OR WIRED FORM

SEMI-KIT

WIRED

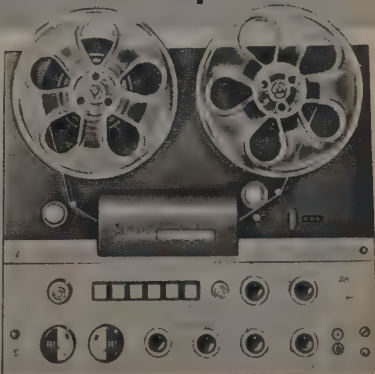
**\$299.95**

**\$399.95**

NO MONEY DOWN

NO MONEY DOWN

- Electrical Pushbutton Control
- Hysteresis Capstan Motor Plus, 2-Separate Reel Motors
- 14-Transistor Record/Play Preamp
- Lifetime Lubricated Bearings

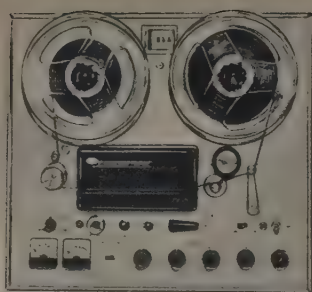


MODEL RP100K. Professional studio-type operation highlights this 2-speed stereo tape deck with easy-to-assemble transistorized record-play preamp. 3-head design permits 4-track stereo and monophonic record/play, 2-track stereo and monophonic playback, plus direct monitoring, and sound-on-sound recording. Features DC electro dynamic braking; solenoid-operated tape lifters; dual recording meters; separate, mixing-type mike and high-level inputs; digital-type counter. Response:  $\pm 2$  db, 30-15,000 cps at  $7\frac{1}{2}$  ips; 30-10,000 cps at  $3\frac{3}{4}$  ips. Takes 7" reels. 13 $\frac{3}{4}$ x15 $\frac{1}{2}$ x7 $\frac{1}{4}$ ". For operation from 110-120 v., 60 cycle AC. Shpg. wt., 48 lbs.

90 RZ 751. No Money Down. NET..... 299.95

90 RZ 750. MODEL RP100W. As above, but factory-wired. NET..... 399.95

# Concertone Professional Tape Recorders



**NEW!** Plays 4-Track Stereo From End-To-End and Back—Without Changing Reels!

## MODEL 505-4RK "REVERSE-O-MATIC" RECORDER

"Reverse-O-Matic" lets you listen to both directions of an entire 4-track stereo tape without interruption. The tape will play to the end of the first stereo tracks, instantly reverse, play the opposite tracks to the end of the reel, and then the recorder will stop—all automatically! This exciting feature doubles your listening time, doubles your convenience—makes full-fidelity background music a practical reality for home, institutions and industry.

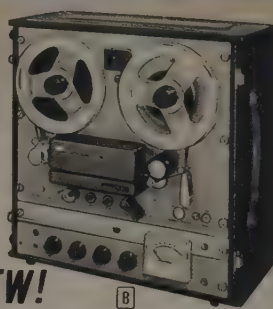
Features four separate 4-track heads for 4-track stereo and mono erase, record, and playback. Plays all monophonic tapes as well as 2-track stereo. Individual record and playback preamp sections permit sound-on-sound and echo recordings, etc. Independent controls for each channel allow mixing of high-impedance microphone and line (tuner, phone) input signals. Outputs for headphones, along with cathode follower type for music system amplifiers.

Response,  $\pm 2$  db; 50-15,000 cps @  $7\frac{1}{2}$  ips; 50-10,000 cps @  $3\frac{3}{4}$  ips. Signal/Noise: 50 db or better. Flatter & Wow: less than  $\frac{1}{2}\%$  rms @  $7\frac{1}{2}$  ips; less than  $\frac{1}{2}\%$  rms @  $3\frac{3}{4}$  ips. Takes 4, 5 or 7" reels. Has Equalization switch for  $7\frac{1}{2}$  and  $3\frac{3}{4}$  ips speeds; Source: Tape output control; 3 hysteresis motors; VU meters; and digital counter. With portable carrying case,  $17\frac{1}{2} \times 9 \times 15"$ . For operation from 110-120 v., 60 cycle AC. Shpg. wt., 43 $\frac{1}{2}$  lbs.

90 RU 721. No Money Down. NET ..... 644.50



**NEW!**



Convenient Use—Rack Mount or Portable

## MODELS 507 AND 508 BROADCAST RECORDERS

Finest caliber instruments meeting exacting broadcast standards as well as critical needs of audiophiles, recording studios, and industry. Engineered for rugged reliability under continuous operation, these recorders employ three hysteresis motors—2 for reeling, and a synchronous capstan motor for timing accuracy of 99.8%.

Models 508 contain three separate monophonic heads for erase, record, and play. Model 507-4 has three 4-track erase, record, play heads, and a 2-track playback head; model 507-2: 2-track erase, record, play and a 4-track playback head. Includes large VU meter mounted on each record/play preamp. Rack mount via an optional adapter. Response, at  $\pm 2$  db: 40-12,000 cps @  $7\frac{1}{2}$  ips; 40-7500 cps @  $3\frac{3}{4}$  ips. Signal/Noise: 55 db for full-track; 50 db for  $\frac{1}{2}$ -track; 50 db for stereo. Flatter & Wow: 0.25% rms @  $7\frac{1}{2}$  ips. Less case, below. Models 507,  $18 \times 22 \times 11"$ ; models 508,  $18 \times 18 \times 11"$ . For 110-120 v., 60 cycle AC. Shpg. wt., models 507, 67 lbs.; models 508, 62 lbs.

A 90 RU 560. Model 507-4 Four-Track Stereo. NET ..... 655.00

90 RU 561. Model 507-2 Two-Track Stereo. NET ..... 655.00

90 RX 562. Portable Case for Stereo Models. 8 lbs. NET ..... 60.00

B 90 RU 563. Model 508-1 Full-Track Monophonic. NET ..... 520.00

90 RU 564. Model 508-2 Half-Track Monophonic. NET ..... 520.00

90 RX 565. Portable Case for Mono Models. 7 lbs. NET ..... 50.00



NET  
**\$84.50**  
NO MONEY DOWN

Interested enthusiasts will find the Player a valuable companion unit for use with existing recording systems. Excellent for editing, duplicate recording and "special effects" taping. Hysteresis-synchronous drive motor provides timing ac-

## NEW MODEL 201 "GALAXY" STEREOPHONIC PLAYER

An ideal unit for addition to music systems. Plays two or four-track stereophonic as well as monophonic full or half-track tapes at both  $3\frac{3}{4}$  and  $7\frac{1}{2}$  ips speeds. Tape recording enthusiasts will find the Player a valuable companion unit for use with existing recording systems. Excellent for editing, duplicate recording and "special effects" taping. Hysteresis-synchronous drive motor provides timing ac-

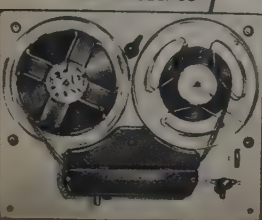
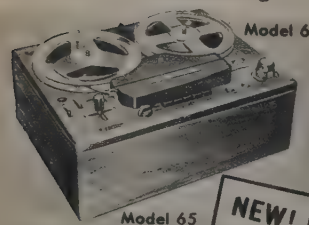
curacy of 99.5%. Wow & Flatter: less than .30% rms at  $7\frac{1}{2}$  ips. Signal/Noise: 50 db @  $7\frac{1}{2}$  ips. When connected to suitable tape head input, Response: 40-12,000 cps,  $\pm 3$  db @  $7\frac{1}{2}$  ips. Has single-knob control for Play, Stop, Fast, Off-On; head elevator; digital counter.  $6\frac{1}{2} \times 14\frac{1}{2} \times 10"$ . For 110-120 v., 60 cycle AC. Shpg. wt., 14 $\frac{1}{2}$  lbs.

90 RU 566. NET ..... 84.50

MODEL 201A. As above, with transistorized stereo playback preamp. 16 lbs.

90 RU 567. NET ..... 159.50

## Tandberg . . . Versatile, Wide-Range Stereo Recorders



### MODEL 6 TAPE RECORDER

NET  
**\$498.00**  
NO MONEY DOWN

- 3-Speed Pushbutton Operation
- Hysteresis-Synchronous Drive Motor

A brilliantly engineered recorder providing maximum versatility and operational convenience. Three separate 4-track heads, 2 record and 2 playback preamps, offer facilities for stereo and mono recording, sound-on-sound, echo, etc. Response:  $\pm 2$  db, 30-16,000 cps @  $7\frac{1}{2}$  ips; 40-11,000 cps @  $3\frac{3}{4}$  ips; 50-5500 cps @  $1\frac{1}{2}$  ips. Flatter/Wow: under 0.1% at  $7\frac{1}{2}$  ips. Cathode follower outputs.  $6\frac{1}{2} \times 16 \times 12"$ . Less mikes. For 110-245 v., 60 cycle AC. Wt., 27 lbs.

90 RU 711. NET ..... 498.00

90 RU 712. Model 6-1. As above, plus luggage-type case. Wt., 32 lbs. NET ..... 521.00

90 R 713. 22-Ft Foot Pedal. For remote start-stop, forward-reverse 3 lbs. NET 18.00

90 RX 764. TC-56 Case. 6 lbs. NET .24.50

90 R 794. CM-6 Microphone. 30-12,000 cps.

With 12-ft. cable. 4 oz. NET ..... 15.00

### MODEL 65 TAPE PLAYER

NET  
**\$199.50**  
NO MONEY DOWN

- 3-Speed Operation
- 4-Track Stereo & Mono
- Reproduces 30-16,000 cps

Designed exclusively for installation in new or existing hi-fi music systems, this playback transport upholds the well established Tandberg tradition of precision-crafted units for superb tape reproduction.

Contains a playback head for optimum performance of 2 and 4-track stereo and monophonic tapes, and two outputs for connection to "tape head" inputs. Response at  $\pm 2$  db: 30-16,000 cps @  $7\frac{1}{2}$  ips; 40-11,000 cps @  $3\frac{3}{4}$  ips; 50-5500 cps @  $1\frac{1}{2}$  ips.

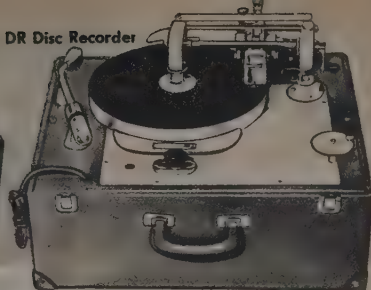
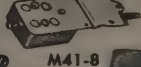
Utilizes a completely mechanical drive and a hysteresis-synchronous motor. Controls include: Lever for playback, fast-forward and reverse; Off-On button; counter; Speed Selector. Has facilities for adding erase-record heads, and record playback preamps. With mounting brackets.  $6\frac{1}{2} \times 12 \times 12"$ . For 110 v., 60 cycle AC. Wt., 18 lbs.

90 RU 568. NET ..... 199.50



# DISC RECORDERS and ACCESSORIES...

DR Disc Recorder



## PROFESSIONAL REK-O-KUT DISC RECORDING EQUIPMENT

REK-O-KUT M-12S OVERHEAD RECORDING LATHE. Used in Model DR. Interchangeable with M-12. Less head, 20 lbs.

15 RU 745. No Money Down. NET.....150.00

REK-O-KUT RH-5 CUTTING HEAD. For M-12S. 8 ohms. 1 lb.

13 RC 434. No Money Down. NET.....115.00

REK-O-KUT M-12S-210 MICROGROOVE LEADSCREW. For Model 4-12S, above. 210 lines per inch. Shpg. wt., 1 lb.

15 R 743. No Money Down. NET.....44.95

REK-O-KUT M-12S-240 MICROGROOVE LEADSCREW. As above, except 40 lines per inch. Shpg. wt., 1 lb.

15 R 744. No Money Down. NET.....44.95

REK-O-KUT TR-43H 12" RECORDING TURNTABLE. 33 1/3 and 78 rpm. Minimum. Tapped for M-12S lathe. Hysteresis-synchronous motor. With 45 rpm idler; less cutting head. 21 lbs.

11 RU 749. No Money Down. NET.....149.95

STATIC TYPE X-26 CRYSTAL CUTTING HEAD. High impedance; response to 6 kc. Flange for Wilcox-Gay, Knight, G. I. units. Requires approx. 150 v. (rms) drive. 1 1/2 x 3/4 x 3/4". 24" leads. 1 lb.

5 RC 125. NET.....7.53

STATIC TYPE M41-8 MAGNETIC CUTTING HEAD. 8 ohms; connects directly to amplifier. 7 kc response. Requires 3 v. (rms). 1 lb.

5 RC 128. NET.....7.53

## AUDIOTISC PROFESSIONAL RECORDING BLANKS

Smooth-coated on both sides of aluminum base. Red Label discs exceed the most exacting needs or highest quality professional recordings. Yellow Label discs are for general purpose work in studios and schools; Blue Label for home recording. Have same high-quality lacquer as professional discs, but on thinner aluminum base. Large center hole for 45-rpm records.



| Stock No. | Size   | Label  | Base  | Wt. Ea. | Lbs. Pkg. | Std. Pkg. | NET EACH    |           |
|-----------|--------|--------|-------|---------|-----------|-----------|-------------|-----------|
|           |        |        |       |         |           |           | Single Lots | Std. Pkg. |
| 9 R 085   | 7"     | Red    | .050" | 5 oz.   | 5         | 25        | .91         | .82       |
| 9 R 069   | 8"     | Red    | .040" | 5 oz.   | 5         | 25        | .71         | .65       |
| 9 R 070   | 10"    | Red    | .040" | 5 oz.   | 8 1/2     | 25        | 1.01        | .91       |
| 9 R 071   | 12"    | Red    | .050" | 9 oz.   | 13 1/2    | 25        | 1.67        | 1.50      |
| 9 RU 072  | 16"    | Red    | .050" | 1 lb.   | 25        | 25        | 3.01        | 2.70      |
| 9 R 088   | 7"     | Yellow | .050" | 5 oz.   | 5         | 25        | .78         | .70       |
| 9 R 089   | 8"     | Yellow | .040" | 5 oz.   | 5         | 25        | .61         | .55       |
| 9 R 090   | 10"    | Yellow | .040" | 6 oz.   | 8 1/2     | 25        | .81         | .72       |
| 9 R 091   | 12"    | Yellow | .050" | 9 oz.   | 13 1/2    | 25        | 1.30        | 1.18      |
| 9 RU 092  | 16"    | Yellow | .050" | 1 lb.   | 25        | 25        | 2.42        | 2.18      |
| 9 R 065   | 6 1/2" | Blue   | .027" | 3 oz.   | 6 1/2     | 50        | .32         | .29       |
| 9 R 066   | 8"     | Blue   | .027" | 4 oz.   | 7 1/2     | 50        | .46         | .41       |
| 9 R 067   | 10"    | Blue   | .027" | 5 oz.   | 10 1/2    | 50        | .66         | .59       |

## NEW SINGLE-FACED MASTER BLANKS

|          |         |       |        |        |    |      |      |
|----------|---------|-------|--------|--------|----|------|------|
| 9 R 078  | 12"     | .050" | 14 oz. | 18 1/2 | 25 | 1.64 | 1.47 |
| 9 R 077  | 13 1/2" | .065" | 19 oz. | 18 1/2 | 25 | 1.93 | 1.73 |
| 9 RU 079 | 16"     | .050" | 21 oz. | 30     | 25 | 3.07 | 2.76 |

## RECORDIST ECONOMY-PRICED RECORDING BLANKS

For home and semi-professional recordings. All have aluminum base except Blue Label, paper bond base. All are cellulose acetate coated. Red Label discs are semi-professional units for recording music, vocalists, etc. Purple Label discs are well-suited for test cuts, equipment adjustments, etc. All are double-faced.

| Stock No. | Size   | Label  | Base  | Wt. Ea. | Std. Pkg. | Wt. Std. Pkg. | NET EACH    |           |
|-----------|--------|--------|-------|---------|-----------|---------------|-------------|-----------|
|           |        |        |       |         |           |               | Single Lots | Std. Pkg. |
| 9 R 125   | 6"     | Blue   | .021" | 3 oz.   | 6         | 1/2 lb.       | 25¢         | 15¢       |
| 9 R 140   | 6 1/2" | Blue   | .021" | 3 oz.   | 5         | 1/2 lb.       | 30¢         | 27¢       |
| 9 R 141   | 8"     | Red    | .021" | 4 oz.   | 5         | 3/4 lb.       | 40¢         | 36¢       |
| 9 R 142   | 10"    | Red    | .021" | 4 oz.   | 5         | 1 lb.         | 60¢         | 54¢       |
| 9 R 143   | 12"    | Red    | .021" | 6 oz.   | 5         | 2 1/2 lbs.    | 73¢         | 66¢       |
| 9 R 195   | 6 1/2" | Purple | .012" | 3 oz.   | 5         | 1/2 lb.       | 23¢         | 21¢       |
| 9 R 196   | 8"     | Purple | .012" | 4 oz.   | 5         | 3/4 lb.       | 33¢         | 30¢       |
| 9 R 197   | 10"    | Purple | .012" | 4 oz.   | 5         | 1 lb.         | 47¢         | 42¢       |

REK-O-KUT DR DISC RECORDER. Professional cutter with M12S overhead recording lathe. Operates at 33 1/3 and 78 rpm; has idler and adapter for 45 rpm. Makes masters from 6" to 13 1/4". Accepts all standard vertical mounting cutting heads. Has 120 line lead-screw; interchangeable with leadscrews to 240 lines (see left). Can be hand cranked for run-in spiral grooves. Hysteresis motor. Calibrated timing scale. Model S-120 arm with dual sapphire magnetic pickup plays up to 12" records. With RH-5 cutting head; 50-13,000 cps (left). Uses standard short-shank needle. In portable case. 7x10x20 1/2". For 105-125 v., 60 cycle AC. Shpg. wt., 45 lbs.

93 RZ 437. No Money Down. NET.....475.00

REK-O-KUT R8B RECORDING AMPLIFIER. For making professional recordings with recorder, above. Response, 20-20,000 cps at 20-watt output. Distortion: harmonic, 0.32% at 1000 cps at full output; intermodulation, 0.825%. 4 inputs: mike, tape and phono mixing, tuner. Outputs: speaker and cutter, 4, 8 and 16 ohms; monitor, 2000 ohms. VU meter. In portable carrying case. 5 1/2 x 19 x 6 1/2". For 110-120 v., 50-60 cycle AC. Shpg. wt., 25 lbs.

93 RU 438. No Money Down. NET.....250.00

93 RZ 439. REK-O-KUT Imperial II Disc Recorder. Consists of DR cutter and R8B amplifier. 70 lbs. NET.....695.00

## NEW BOGEN VP20 TRANSCRIPTION PLAYER

A versatile, carry-about transcription record player/20-watt P.A. system. Perfect for schools, clubs, churches, etc. Employs Bogen renowned B50-16 turntable featuring continuously variable speed from 16 to 20, and 29 through 86 rpm — plus lock-in positions for 16 1/2, 33 1/3, 45 and 78 rpm. Unique automatic cueing control permits raising or lowering of pickup arm on any portion of a record. Arm has magnetic cartridge installed with dual sapphire needles. 3 1/2-lb. steel turntable takes discs to 16" in diameter. Amplifier provides full 20-watt output and has complete array of controls: Off-On, Bass, Treble, Volume Input 2, Volume, Scratch Filter and Input 2 Selector. Wow and rumble are negligible. Has inputs for 2 mikes and tuner; outputs for tape recorder and monitor-amplifier. 12" speaker with 25-ft. cable is mounted in removable cover of case. Size, 12 1/2 x 16 1/4 x 15 1/4". Styled in grey and black vinyl. For 117 v., 60 cycle AC. Shpg. wt., 40 lbs.

92 RU 781. No Money Down. NET.....138.15

## DISC CUTTING NEEDLES

AUDIOPONTS. High-quality recording needles. For all professional and non-professional recorders. Types 14, 20 and 34 have 87° included angle. All have .003" tip radius except Type 20, .0005". Shpg. wt., 2 oz.

| Stock No. | Type | Description                 | NET EACH |
|-----------|------|-----------------------------|----------|
| 65 R 960  | 14   | Sapphire, short dual shank  | 4.85     |
| 65 R 967  | 20   | As above, for microgroove   |          |
| 65 R 961  | 14   | Sapphire, long dual shank   |          |
| 65 R 966  | 20   | As above, for microgroove   |          |
| 65 R 962  | 202  | Sapphire, short brass shank | 3.88     |
| 65 R 963  | 202  | Sapphire, long brass shank  |          |
| 65 R 964  | 34   | Stellite, short brass shank | 1.47     |
| 65 R 965  | 34   | Stellite, long brass shank  |          |

KNIGHT STEEL CUTTING NEEDLES. Short shank. Have .003" tip. Average cutting life, 20 minutes. Shpg. wt., 3 oz.

65 R 803. Pkg. of 5. NET.....59¢

KNIGHT SAPPHIRE CUTTING NEEDLE. Precision-ground and highly polished. Short shank. Has .003" tip. Av. life, 5 hrs. 2 oz.

65 R 800. NET EACH.....3.88

## GUMMED RECORD LABELS

Gummed record labels with spaces for title, artist, date, other information. Shpg. wt., per-pkg., 2 oz. 50 per pkg.

65 R 520. 4 or more Pkgs., Ea., 41¢ NET PER PKG.....45¢

# Famous Highest Quality Recording Tapes



## KNIGHT

AVAILABLE ONLY  
AT ALLIED . . . USED  
THE WORLD OVER

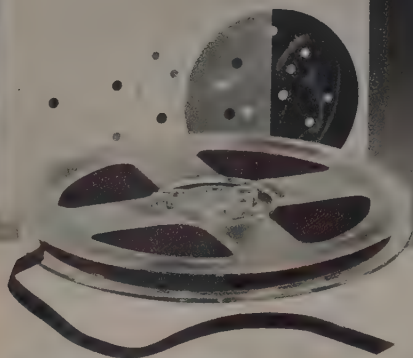
**CONTROLLED QUALITY.** Made in the most modern factories; rigidly controlled during manufacture.

**DOUBLE-INSPECTED.** To conform to Allied's high standards . . . to assure absolute uniformity in every reel.

**GUARANTEED SPICE-FREE.** Knight tapes are no patchwork of pieces—every reel a continuous length.  
**FINEST MATERIALS.** Tape coating is a specially formulated oxide that will not rub off on your tape heads.

### SPECIAL FORMULA

300 FT. X 1/2 IN. 3 MIL  
DOUBLE STRENGTH  
MAGNETIC TAPE  
FOR ALL STANDARD  
TAPE RECORDERS



new

PHENOMENAL QUALITY

AT FANTASTICALLY LOW COST

### SPECIAL FORMULA 1 1/2-MIL TAPE

ONLY

**\$1.29**

Per Reel  
in Any  
Quantity!

- You Cannot Buy Tape of This High Quality Anywhere Else at This Low a Price
- Deep-Lubricated to Protect Tape Heads
- Consistent in Quality—1 or 100 Reels

Knight brings you a tape value that cannot be duplicated elsewhere . . . it is ours exclusively! Each reel of Special Formula tape contains 1200 feet of tape, uniformly wound and precisely slit, of the finest materials available. The base is rugged and durable, and specially patented oxide formula assures you of superior fidelity and performance. Originally made for computer and instrumentation use, Special Formula tape is actually made to standards much higher than those for audio tape manufacture. Guaranteed splice-free . . . moisture-resistant . . . no curling or twisting. Compare its unique quality! Made in U.S. On 7" plastic reel. Wt., 1 lb. 90 R 858. In Any Quantity, PER REEL . . . . .1.29

GREATEST TAPE VALUE IN THE WORLD!

1/2-MIL TEMPERED "MYLAR" FOR EXTRA-LONG PLAY ON 3" REEL!

### KN-10 DOUBLE-STRENGTH 1/2-MIL "MYLAR"

new

KNIGHT  
KN 10

300 FT. X 1/2 IN. 1/2 MIL  
DOUBLE STRENGTH  
MAGNETIC TAPE

FITS ALL STANDARD  
TAPE RECORDERS

10 REELS  
MYLAR  
BASE

ONLY

**72c**

Per Reel;  
10 Reels  
for \$6.48

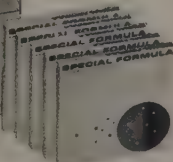
- Doubly Strong for Years of Use—1/2-Mil Thickness Gives You the Longest Playing Time It is Possible to Get on a 3" Reel
  - Perfect for All the New Transistorized Portable Tape Recorders
  - Each Reel in a Self-Mailing Carton—Goes Anywhere a Letter Goes
- Double the playing time of ordinary tape on a 3" reel. At 3 3/4 ips speed, you get a full 1/2-hour of playing time. Unexcelled for dictation, correspondence, "living letters" between friends and relatives in distant places. 300 ft. of splice-free, tensilized "Mylar"—will never stretch. Each KN-10 reel in easy-to-address carton. Made in U.S. Shpg. wt., 8 oz. 90 R 861. Per Reel, ONLY . . . . .72c

**SAVE ON SPECIAL 10-PACK.** Save 72c by purchasing 10 reels of KN-10 tape in special package (each reel individually boxed). Wt., 5 lbs. 90 R 876. Per Package of 10, ONLY . . . . .6.48

### COMBINATION OFFER! 5 REELS of Special Formula Tape and Carrying Case

ONLY

**\$7.45**



Allied's extra-value combination offer! For only \$7.45 you get 5 reels of Knight Special Formula 1 1/2-mil recording tape (6000 feet), plus a handy fiberboard carrying case. Case can double as storage container—features lucite carrying handle and snap-clasp. Each reel of tape within the carrying case is individually boxed. Take advantage of this special, convenient combination offer now! Shpg. wt., 6 lbs. 90 R 880. Combination Deal, ONLY . . . . .7.45



# An Exclusive Allied Tape for Every Need at Lowest Cost

OUTSTANDING TAPE VALUES. You may be able to see the superb quality of these tapes, but it's there. Made to conform to rigid government specifications and double-tested, Knight tapes are universally used by studios, schools, and tape recording fans.

YOUR  
QUICK  
GUIDE  
TO TAPE  
PLAYING  
TIMES

| Tape Thickness   | Reel Size | Tape Footage | ½-TRACK (2-Track Mono, 4-Track Stereo)—Total Time Both Tracks |         |         | QUARTER-TRACK 4-Track Mono—Total Time 4 Tracks |        |         |
|------------------|-----------|--------------|---------------------------------------------------------------|---------|---------|------------------------------------------------|--------|---------|
|                  |           |              | SPEED (INCHES PER SECOND)                                     |         |         | SPEED (INCHES PER SECOND)                      |        |         |
|                  |           |              | 1½"                                                           | 3½"     | 7½"     | 1½"                                            | 3½"    | 7½"     |
| Standard ½-Mil   | 3"        | 150          | ½ hr.                                                         | 15 min. | 7½ min. | 1 hr.                                          | ½ hr.  | 15 min. |
|                  | 4"        | 300          | 1 hr.                                                         | 1 hr.   | 15 min. | 2 hrs.                                         | 1 hr.  | ½ hr.   |
|                  | 5"        | 600          | 2 hrs.                                                        | 1 hr.   | ½ hr.   | 4 hrs.                                         | 2 hrs. | 1 hr.   |
| Long-Play 1-Mil  | 5"        | 900          | 4 hrs.                                                        | 1 hr.   | 1 hr.   | 8 hrs.                                         | 4 hrs. | 2 hrs.  |
|                  | 7"        | 1800         | 3 hrs.                                                        | 1½ hrs. | 45 min. | 6 hrs.                                         | 3 hrs. | 1½ hrs. |
|                  | 7"        | 1800         | 6 hrs.                                                        | 3 hrs.  | 1½ hrs. | 12 hrs.                                        | 6 hrs. | 3 hrs.  |
| Extra-Play ½-Mil | 3"        | 300          | 1 hr.                                                         | ½ hr.   | 15 min. | 2 hrs.                                         | 1 hr.  | ½ hr.   |
|                  | 5"        | 1200         | 4 hrs.                                                        | 2 hrs.  | 1 hr.   | 8 hrs.                                         | 4 hrs. | 2 hrs.  |
|                  | 7"        | 2400         | 8 hrs.                                                        | 4 hrs.  | 2 hrs.  | 16 hrs.                                        | 8 hrs. | 4 hrs.  |

OUR FINEST TAPE... CHOICE OF PROFESSIONALS  
**KN-50 PLUS-PLAY 1-MIL "MYLAR" TAPE**  
50% MORE RECORDING TIME... PEERLESS VALUE

"Mylar" Base Is Virtually Unaffected by Extremes of Temperature and Humidity

Meets the Most Critical Tape Recording Requirements  
Has Unusual Tensile Strength and Break-Resistance

First choice of the professionals for full frequency response and longer playing time, KN-50 1-mil "Mylar" equals or surpasses the performance of tapes costing over twice as much! Gives you 50% more recording time than standard tapes. Extremely durable and absolutely uniform in quality, it is moisture and heat-resistant, and is one of the most permanent mediums yet developed for magnetic recording. Features deep-lubricated oxide to protect recording heads, and specially treated surface for unexcelled sensitivity. In tensile strength and other important specifications, KN-50 meets critical professional requirements and government standards. Each reel is factory-fresh and splice-free; sealed in cellophane and packaged in hinged box.

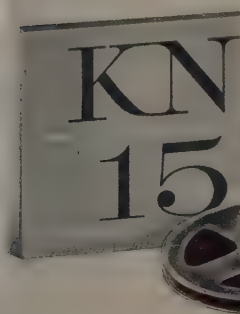
AS LOW AS

**\$161**

5-Lot  
Price



| Stock No. | Foot-age | Reel Size | Wt., Lbs. | 1-4, EACH | 5-Up, EACH |
|-----------|----------|-----------|-----------|-----------|------------|
| 90 R 855  | 900'     | 5"        | ¾         | 1.75      | 1.61       |
| 90 R 856  | 1800'    | 7"        | 1½        | 3.14      | 2.90       |



## STANDARD OF THE INDUSTRY

The same type of tape as used by most major recording labels in the manufacture of recorded music tapes...at new low prices!



## KN-15 STANDARD 1½-MIL ACETATE TAPE

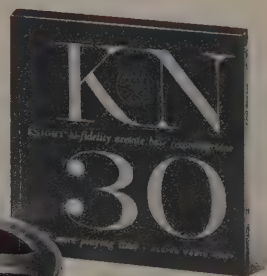
AS LOW AS **\$103** Quality-protected acetate base tape for outstanding results in professional as well as home recording applications. A great value, the performance of KN-15 compares with any other brand of 1½-mil acetate tape, regardless of price. Employs purest red oxide surface, precision applied and deep-lubricated, to assure excellent hi-fi response, noise-free reproduction and uniform output. Guaranteed splice-free for smoothest service. Cellophane-wrapped reel, in hinged storage box.

5-Lot  
Price

| Stock No. | Foot-age | Reel Size | Wt., Lbs. | 1-4, EACH | 5-Up, EACH |
|-----------|----------|-----------|-----------|-----------|------------|
| 90 R 851  | 600'     | 5"        | ½         | 1.09      | 1.03       |
| 90 R 852  | 1200'    | 7"        | 1         | 1.71      | 1.57       |

## POPULAR LOW-COST PLUS-PLAY

Made to the same high-quality standards as other Knight tapes—gives you greatly extended playing time.



## KN-30 PLUS-PLAY 1-MIL ACETATE TAPE

AS LOW AS **\$113** One of the most popular recording tapes available today...and with good reason! Offers superior quality, extra-long playing time (as much as 12 hours per reel), and excellent savings. The additional length offered by "Plus-Play" tape permits uninterrupted recordings of entire concerts, conferences, broadcasts and many other events, on a single reel of tape. KN-30 tape features thinner base and special coating of oxide for superb response. Cellophane-wrapped reel, in hinged storage box.

5-Lot  
Price

| Stock No. | Foot-age | Reel Size | Wt., Lbs. | 1-4, EACH | 5-Up, EACH |
|-----------|----------|-----------|-----------|-----------|------------|
| 90 R 853  | 900'     | 5"        | ¾         | 1.29      | 1.13       |
| 90 R 854  | 1800'    | 7"        | 1½        | 2.32      | 2.12       |

Write for Prices on Knight Recording Tape in Larger Quantities Than Shown Here



1-Mil  
"Mylar"



Tempered  
1/2-Mil  
"Mylar"



Demagnetizer



I. D. Labels

## "AUDIOTAPE" TAPE, ACCESSORIES

**STANDARD TAPE—1 1/2-MIL ACETATE.** Plastic reels except \*NARTB aluminum (3" center opening). Av. shgp. wt., 8 oz.

| Stock No. | Type   | Footage | Reel    | List   | EACH | Lot Price |
|-----------|--------|---------|---------|--------|------|-----------|
| 96 R 562  | 151    | 150'    | 3"      | \$0.70 | .46  | .41       |
| 96 R 561  | 351    | 300'    | 4"      | 1.35   | .89  | .79       |
| 96 R 560  | 651    | 600'    | 5"      | 2.25   | 1.47 | 1.32      |
| 96 R 356  | 1251   | 1200'   | 7"      | 3.50   | 2.29 | 2.06      |
| 96 R 357  | 2551R* | 2500'   | 10 1/2" | 10.90  | 7.12 | 6.41      |

†NET EACH, 10 or more. ‡NET EACH, 5 or more.

**"LONGER-RECORDING" TAPE—1-MIL ACETATE.** 50% more recording time. Plastic reels except \*NARTB alum. (3" ctr. opening). 8 oz.

| Stock No. | Type   | Footage | Reel    | List   | EACH | Lot Price |
|-----------|--------|---------|---------|--------|------|-----------|
| 92 R 935  | 941    | 900'    | 5"      | \$3.50 | 2.29 | 2.06      |
| 92 R 936  | 1841   | 1800'   | 7"      | 5.50   | 3.60 | 3.23      |
| 92 R 937  | 3641R* | 3600'   | 10 1/2" | 12.85  | 8.40 | 7.56      |

†NET EACH, 10 or more. ‡NET EACH, 5 or more.

**"LONGER RECORDING" TAPE—1-MIL "MYLAR."** 50% more recording time. "Mylar" base. On plastic reels except \*NARTB aluminum reel (3" center opening). †Plastic reel in self-mailer carton. Wt., 12 oz.

| Stock No. | Type   | Footage | Reel    | List   | EACH | Lot Price |
|-----------|--------|---------|---------|--------|------|-----------|
| 96 R 838  | 261§   | 225'    | 3"      | \$1.00 | .66  | .59       |
| 96 R 955  | 961    | 900'    | 5"      | 3.60   | 2.35 | 2.12      |
| 96 R 956  | 1861   | 1800'   | 7"      | 6.20   | 4.05 | 3.65      |
| 96 R 958  | 3661R* | 3600'   | 10 1/2" | 14.40  | 9.41 | 8.47      |

†NET EACH, 10 or more. ‡NET EACH, 5 or more.

**COLOR BASE TAPE—1 1/2-MIL ACETATE.** Same high quality as acetate base (above). Plastic reels. Av. shgp. wt., 8 oz.

| No.      | Green | Stock No. | Blue  | Footage | Reel | EACH | 10-Up, EA. |
|----------|-------|-----------|-------|---------|------|------|------------|
| 96 R 736 | 651G  | 96 R 738  | 651B  | 600'    | 5"   | 1.47 | 1.32       |
| 96 R 737 | 1251G | 96 R 739  | 1251B | 1200'   | 7"   | 2.29 | 2.06       |

**LOW-PRINT TAPE.** Minimizes print-through of signal while tape is in storage. 1 1/2-mil acetate. †1 1/2-mil "Mylar." Av. shgp. wt., 12 oz.

| Stock No. | Mfr's Type | Footage | Reel Size | List   | 1-4, EACH | 5-9, EACH | 10-UP, EACH |
|-----------|------------|---------|-----------|--------|-----------|-----------|-------------|
| 92 R 931  | 1251-M*    | 1200'   | 7"        | \$4.30 | 2.80      | 2.80      | 2.53        |
| 92 R 930  | 2551R-M*   | 2500'   | 10 1/2"   | 12.50  | 8.16      | 7.35      | 7.35        |
| 92 R 932  | 1271M†     | 1200'   | 7"        | 5.10   | 3.33      | 3.33      | 3.00        |
| 92 R 933  | 2571R-M†   | 2500'   | 10 1/2"   | 13.50  | 8.82      | 8.82      | 7.94        |

**TEMPERED "MYLAR" TAPE.** Has twice the strength of conventional 1/2-mil tape. Plastic reel. Av. shgp. wt., 8 oz.

| Stock No. | Type  | Reel | Length | List   | 1-9, EA. | 10-Up, EA. |
|-----------|-------|------|--------|--------|----------|------------|
| 92 R 959  | 1231T | 5"   | 1200'  | \$5.45 | 3.56     | 3.20       |
| 92 R 960  | 2431T | 7"   | 2400'  | 9.50   | 6.20     | 5.59       |

**TAPE RECORDER REELS.** 10 1/2". With box. \*3" center. Wt., 8 oz.

| Stock No. | Type | Description                             | List   | 1-4, EA. | 5-Up, EA. |
|-----------|------|-----------------------------------------|--------|----------|-----------|
| 96 R 358  | 10RB | NARTB aluminum*                         |        |          |           |
| 96 R 997  | 10FS | Fiberglass, EIA adapterless 1/2" center | \$4.00 | 2.62     | 2.35      |

**"MYLAR" SELF-TIMING LEADER TAPE.** 100 ft. of white "Mylar" leader tape. Has spaced markings for timing. Shgp. wt., 5 oz.

92 R 938. List, 55¢. NET..... 37c

**AUDIO COLORED PLASTIC REELS.** Attractive colored plastic reels (less tape) available in popular colors. Choice of 5" and 7" sizes. Supplied in boxes. Av. shgp. wt., 4 oz.

| Reel Size | Clear    | Red      | Yellow   | Green    | Blue     | List | 1-9 | 10-Up |
|-----------|----------|----------|----------|----------|----------|------|-----|-------|
| 5"        | 96 R 748 | 96 R 740 | 96 R 742 | 96 R 744 | 96 R 746 | 60c  | 39¢ | 35¢   |
| 7"        | 96 R 749 | 96 R 741 | 96 R 743 | 96 R 745 | 96 R 747 | 75c  | 49¢ | 44¢   |

**ONE-REEL BOXES.** \*Self-mailer. Shgp. wt., 3 oz.

| Stock No. | Mfr's Type | Reel Size | List | 1-9, EACH | 10-Up, EACH |
|-----------|------------|-----------|------|-----------|-------------|
| 90 R 303  | 3MB*       | 3"        | 15c  | 10¢       | 9¢          |
| 90 R 304  | 5B         | 5"        | 20c  | 13¢       | 12¢         |
| 90 R 305  | 7B         | 7"        | 20c  | 13¢       | 12¢         |

**30AL IDENTIFICATION LABELS.** Self-adhesive, 1/2x2" labels. Attach to reel for quick identification. Each package includes 30 identification labels. Shgp. wt., per package 4 oz.

96 R 564. List, 20c. NET PER PACKAGE..... 12c

**TYPE 400 DEMAGNETIZER.** Quickly demagnetizes tape recording heads to achieve reduced noise level and distortion. Consists of an AC magnet with pole pieces shaped to fit contour of recording heads. Extremely easy to use. Case diameter, 1 3/4". For operation from 110-120 volts, 60 cycle AC. Shgp. wt., 1 lb.

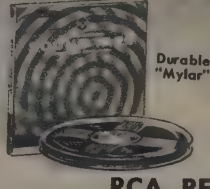
96 R 563. NET..... 5.88

**HEAD ALIGNMENT TAPE.** 300-ft. 4" reel. 1 1/2-mil "Mylar". 4 oz.

90 R 306. List, \$10.00. NET..... 5.88



Standard Acetate



Durable  
"Mylar"

## RCA RECORDING TAPE

**ACETATE BASE TAPE.** Oxide coating is impregnated with dimethyl silicone, a dry lubricant to reduce wow, flutter, squeal and tape head wear. Av. shgp. wt., 8 oz.

| Stock No. | Mfr's Type | Tape Footage | Reel Size | Mil   | List   | NET EACH  |
|-----------|------------|--------------|-----------|-------|--------|-----------|
| 90 R 987  | 262C1      | 150'         | 3"        | 1 1/2 | \$ .70 | .46 .41   |
| 92 R 963  | 289C1      | 900'         | 5"        | 1     | 3.50   | 2.29 2.06 |
| 90 R 954  | 284C1      | 600'         | 5"        | 1     | 2.25   | 1.47 1.32 |
| 90 R 958  | 286C1      | 1800'        | 7"        | 1     | 5.50   | 3.60 3.23 |
| 90 R 951  | 285C1      | 1200'        | 7"        | 1 1/2 | 3.50   | 2.29 2.06 |

**"MYLAR" BASE TAPE.** Superior magnetic tape with longer lasting, tear-resistant "Mylar" base. Virtually unaffected by extremes in cold, heat and humidity. Av. shgp. wt., 8 oz.

| Stock No. | Mfr's Type | Tape Footage | Reel Size | Mils  | List   | NET EACH  |
|-----------|------------|--------------|-----------|-------|--------|-----------|
| 90 R 991  | 263C1      | 225'         | 3"        | 1     | \$1.00 | .66 .59   |
| 92 R 967  | 252C1      | 1200'        | 5"        | 1 1/2 | 4.55   | 2.97 2.68 |
| 92 R 968  | 253C1      | 900'         | 5"        | 1     | 3.60   | 2.35 2.12 |
| 90 R 964  | 290C1      | 600'         | 5"        | 1 1/2 | 2.65   | 1.73 1.56 |
| 90 R 955  | 287C1      | 2400'        | 7"        | 1 1/2 | 7.85   | 5.14 4.61 |
| 92 R 971  | 258C1      | 1800'        | 7"        | 1     | 6.20   | 4.05 3.65 |
| 90 R 965  | 291C1      | 1200'        | 7"        | 1 1/2 | 4.25   | 2.77 2.50 |



Tensilized



Bookshelf  
Tape Chest

**TENSILIZED EXTRA-LONG PLAY TAPE.** Toughened to withstand the severest playing conditions. Av. shgp. wt., 10 oz.

| Stock No. | Mfr's Type | Tape Footage | Reel Size | Mil | List | NET EACH        |
|-----------|------------|--------------|-----------|-----|------|-----------------|
| 90 R 988  | 296C1      | 300'         | 3"        | 3"  | 1/2  | \$1.60 1.05 .94 |
| 90 R 989  | 260C1      | 1200'        | 5"        | 1/2 | 4.75 | 3.11 2.79       |
| 90 R 990  | 288C1      | 2400'        | 7"        | 1/2 | 8.75 | 5.71 5.14       |

**TYPE 506C1 EMPTY 5" PLASTIC REEL.** In box. Shgp. wt., 4 oz.

90 R 313. NET EACH..... 38c

**TYPE 507C1 EMPTY 7" PLASTIC REEL.** In box. Shgp. wt., 4 oz.

90 R 314. NET EACH..... 44c

**TAPE STORAGE CASES.** Handy bookshelf-type cases for convenient storage of your tape reels. Chip-board construction; gold stamped, simulated leather covering. Each of the cases accommodates up to five reels of tape. Shgp. wt., 8 oz.

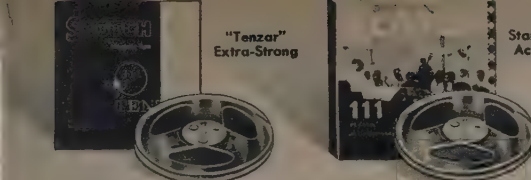
**TYPE 501C1.** For 5" reels. 5 1/2x4 1/2x5 3/4".

92 R 961. List, \$1.28. NET..... 75c

**TYPE 502C1.** For 7" reels. 7 1/2x4 1/2x5 3/4".

92 R 962. List, \$1.40. NET..... 82c





## "SCOTCH" RECORDING TAPE

**TYPE 311 "TENZAR" TAPE.** Extra-tough 1½-mil recording tape. Tear and stretch-resistant. 5" reels are 600'; 7" reels are 1200'. Includes "end-of-reel" clip. Available in choice of clear, red, blue, green or yellow reels. Shpg. wt., 10 oz.

| Size | Clear    | Red      | Blue     | Green    | Yellow   | List   | NET EACH  |
|------|----------|----------|----------|----------|----------|--------|-----------|
| 5"   | 90 R 956 | 90 R 315 | 90 R 316 | 90 R 317 | 90 R 318 | \$2.40 | 1.60/1.44 |
| 7"   | 90 R 957 | 90 R 319 | 90 R 320 | 90 R 321 | 90 R 322 | 3.75   | 2.50/2.25 |

**TYPE 111 STANDARD TAPE—1½-MIL ACETATE.** General-purpose acetate base recording tape of high quality. Supplied on high-strength molded plastic reel, except \*aluminum NAB reel (3-inch center opening). Av. shpg. wt., per reel, 8 oz.

| Stock No. | Type     | Footage | Reel | List   | 1-11, EA. | 2-Up, EA. |
|-----------|----------|---------|------|--------|-----------|-----------|
| 92 R 992  | 111-3    | 300'    | 4"   | \$1.35 | .88       | .79       |
| 92 R 993  | 111-6    | 600'    | 5"   | 2.25   | 1.47      | 1.32      |
| 92 R 994  | 111-12   | 1200'   | 7"   | 3.50   | 2.29      | 2.06      |
| 92 R 995  | 111-24R* | 2400'   | 10½" | 10.90  | 7.13      | 6.41      |

**TYPE 190 EXTRA-PLAY TAPE—1-MIL ACETATE.** Thin acetate base provides 50% more playing time on standard size reels. \*NAB aluminum reel (3" center opening). Av. shpg. wt., 12 oz.

| Stock No. | Type     | Footage | Reel | List   | 1-11, EA. | 2-Up, EA. |
|-----------|----------|---------|------|--------|-----------|-----------|
| 92 R 996  | 190-9"   | 900'    | 5"   | \$3.50 | 2.29      | 2.06      |
| 92 R 997  | 190-18"  | 1800'   | 7"   | 5.50   | 3.60      | 3.23      |
| 92 R 998  | 190-36R* | 3600'   | 10½" | 12.85  | 8.40      | 7.56      |

**TYPE 150 EXTRA-PLAY TAPE—1-MIL MYLAR.** Extra-strong "Mylar" base tape. Plastic reels except \*NAB aluminum 10½" reel (3" center opening). Av. shpg. wt., 12 oz.

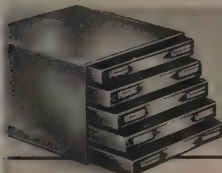
| Stock No. | Type     | Footage | Reel | List   | 1-11, EA. | 2-Up, EA. |
|-----------|----------|---------|------|--------|-----------|-----------|
| 92 R 900  | 150-9"   | 900'    | 5"   | \$3.60 | 2.35      | 2.12      |
| 92 R 901  | 150-18"  | 1800'   | 7"   | 6.20   | 4.04      | 3.65      |
| 92 R 903  | 150-36R* | 3600'   | 10½" | 14.40  | 9.41      | 8.47      |

**TYPE 120-12 HIGH-OUTPUT TAPE—1½-MIL ACETATE.** 7 db higher output. 1200'. Plastic 7" reel. Shpg. wt., 12 oz.

92 R 999. 12-Up, EACH.....2.06 1-11, NET EACH.....2.29

**LOW-PRINT TAPE—1½-MIL ACETATE.** Minimizes print-through. 12 oz.

| Stock No. | Type    | Footage | Reel | List   | 1-11, EA. | 12-Up, EA. |
|-----------|---------|---------|------|--------|-----------|------------|
| 92 R 917  | 131-12  | 1200'   | 7"   | \$4.40 | 2.88      | 2.59       |
| 92 R 918  | 131-24R | 2400'   | 10½" | 12.40  | 8.10      | 7.29       |



### COMBINATION OFFER



Standard Acetate



REEVES  
SOUNDRAFT

Plus 50  
"Mylar"

"Lifetime"  
"Mylar"



## REEVES "SOUNDRAFT" RECORDING TAPES

**COMBINATION OFFER.—REELS OF TAPE IN CHESTS.** Get the recording tape of your choice, plus a convenient case to store it in. Attractive, durable tape chest holds five reels. Exceptionally compact; may be placed anywhere. Size, 8x7½x7½".

| Stock No. | Mfr's Type | Tape            | Reels   | Wt., Lbs. | List    | NET EACH |
|-----------|------------|-----------------|---------|-----------|---------|----------|
| 90 R 963  | SC-7       | "Standard"      | 5—1200' | 8         | \$17.50 | 11.45    |
| 90 R 953  | LC-7       | "Lifetime"      | 5—1200' | 8         | 21.25   | 13.87    |
| 90 R 952  | PLC-7      | "Plus-50"       | 5—1800' | 9         | 29.00   | 18.96    |
| 92 R 959  | 75TC       | Tape Chest Only |         | 4         | 1.50    | .98      |

**SOUNDRAFT "MAGNA-SEE."** See the sound track on your recorded tapes with this unique kit. Tape is run through a colloidal iron suspension, which deposits fine iron particles on the magnetic track. Deposit pattern shows you the vertical and angular head alignment, and its condition of wear. Kit includes ½-pt. can of iron suspension, jewelers' "loop," plastic tray, and a roll of transparent tape with 4 slides. Shpg. wt., 1½ lbs.

92 R 975. NET.....7.95

**IRON SUSPENSION.** ½-pt. can of iron suspension fluid for use with "Magna-See," above. Shpg. wt., ¼ lb.

92 R 806. NET.....3.00

**"LIVING LETTERS" 3" RECORDING TAPE.** Each reel comes complete with handy mailable carton. Just write address, apply postage and drop in mail box. Available in choice of standard 1½-mil acetate, 1-mil "Mylar" or "tensitized." Shpg. wt., 2 oz.

| Stock No. | Mfr's Type | Base       | Footage | List   | NET EACH |
|-----------|------------|------------|---------|--------|----------|
| 92 R 991  | 111-1.5    | Acetate    | 150'    | \$ .70 | .46 .41  |
| 90 R 301  | 150-2.25   | "Mylar"    | 225'    | 1.00   | .66 .59  |
| 92 R 471  | 200-3      | Tensitized | 300'    | 1.60   | 1.05 .94 |

**TYPE 200 TENSILIZED TAPE.** Super-strength, long-play tape. Polyester ¾-mil base. Av. shpg. wt., 12 oz.

| Stock No. | Mfr's Type | Footage | Reel | List   | NET EACH  |
|-----------|------------|---------|------|--------|-----------|
| 90 R 300  | 200-12     | 1200'   | 5"   | \$5.45 | 3.56 3.21 |
| 92 R 934  | 200-24     | 2400'   | 7"   | 9.50   | 6.20 5.58 |

**EMPTY PLASTIC REELS.** With index box. Av. shpg. wt., 4 oz.

| Stock No. | Reel Size | List | 1-11, EACH | 12-Up, EACH |
|-----------|-----------|------|------------|-------------|
| 96 R 237  | 3"        | 25c  | 17¢        | 15¢         |
| 96 R 249  | 4"        | 55c  | 37¢        | 33¢         |
| 96 R 236  | 5"        | 65c  | 44¢        | 39¢         |
| 96 R 194  | 7"        | 75c  | 50¢        | 45¢         |

**ONE-REEL MAILING BOXES.** Shpg. wt., 3 oz.

| Stock No. | Reel Size | List | 1-11, EACH | 12-Up, EACH |
|-----------|-----------|------|------------|-------------|
| 96 R 324  | 5"        | 15c  | 10¢        | 9¢          |
| 96 R 323  | 7"        | 20c  | 13¢        | 12¢         |
| 96 R 322  | 10½"      | 30c  | 20¢        | 18¢         |

**TYPE 41-½S SPLICING TAPE.** Coated one side with non-run adhesive. 150'. ½" wide; with handy dispenser. Shpg. wt., 3 oz.

96 R 232. NET.....34c

**TYPE 43P-1.5 PLASTIC BASE LEADER AND TIMING TAPE.** Allows simplified editing and starting of tapes. 150' roll. 3 oz.

92 R 905. 12-Up, EACH.....53c 1-11, EACH.....59c

**TYPE 23-10 PRINTED PLASTIC BASE LEADER TAPE.** Conveniently marked at regular intervals to show time elapsed. Perfect for making insertions in your recorded tapes. 1000-ft. roll. 8 oz.

90 R 312. List. \$4.50. 12-Up, EACH.....2.65 1-11, EACH.....2.94

**"LIFETIME" TAPE—1½-MIL "MYLAR."** Micropolished. On plastic reels Av. shpg. wt., 8 oz.

| Stock No. | Mfr's Type | Footage | Reel Size | 1-9, EA. | 10-Up, EA. |
|-----------|------------|---------|-----------|----------|------------|
| 96 R 968  | L-6        | 600'    | 5"        | 1.73     | 1.56       |
| 96 R 969  | L-12       | 1200'   | 7"        | 2.77     | 2.50       |

**STANDARD TAPE—1½-MIL ACETATE.** General purpose, micropolished recording tape. Acetate base. Supplied on plastic reels. Av. shpg. wt., 8 oz.

| Stock No. | Mfr's Type | Footage | Reel Size | 1-9, EA. | 10-Up, EA. |
|-----------|------------|---------|-----------|----------|------------|
| 90 R 959  | S-1        | 150'    | 3"        | .41      | .38        |
| 90 R 960  | S-3        | 300'    | 4"        | .81      | .73        |
| 90 R 961  | S-6        | 600'    | 5"        | 1.37     | 1.23       |
| 90 R 962  | S-12       | 1200'   | 7"        | 2.29     | 2.06       |

**"PLUS-50" TAPE—1-MIL "MYLAR."** 50% more footage. Av. wt., 8 oz.

| Stock No. | Mfr's Type | Footage | Reel Size | 1-9, EA. | 10-Up, EA. |
|-----------|------------|---------|-----------|----------|------------|
| 92 R 952  | PL-2       | 225'    | 3"        | .62      | .56        |
| 96 R 972  | PL-9       | 900'    | 5"        | 2.22     | 2.00       |
| 96 R 973  | PL-18      | 1800'   | 7"        | 3.79     | 3.41       |

**XP-24 "PLUS 100" TAPE—½-MIL "MYLAR."** Extra-long play micropolished recording tape. Requires careful handling. 2400'. Supplied on 7" plastic reel. Shpg. wt., 14 oz.

95 R 917, 10-Up, EACH 3.82 NET EACH.....4.25

Depend on Allied for Those Hard-to-Find Tape Recording Accessories



**A** JCT-2 JOCKEY CLOTH FOR TAPES. Cleans and lubricates tape by depositing a thin film of silicone. Just apply cloth while running tape through player or recorder. Reduces squeal, chatter, and head and tape wear. Cloth is washable—may be re-used many times. Shpg. wt., 3 oz.  
92 R 988. List, \$1.00. NET..... 69c

**B** TT-1 TAPE THREADER. No more awkward fumbling—place your tape against the hub of the take-up reel, slip on threader, turn crank a few times, and tape is securely threaded on the reel. For use with all reels, 3 to 7". Shpg. wt., 2 oz.  
96 R 713. List, \$1.00. NET..... 69c

**C** TC-12 TAPE CUPS. Handy clips to keep tape from unwinding. Fit any size reel. Reusable plastic clips are supplied in plastic box. Wt., per pkg., 3 oz. 12 per pkg.  
92 R 989. List, 40c. PER PKG..... 27c

**D** SL-305 REEL LABELS. Contains 30 adhesive labels that can be written or typed on, prior to removal from sheet. Fits the spoke of the reel. Have space for Title, Date and Number. Shpg. wt., 2 oz.  
90 R 929. List, 25c. NET..... 12c

**E** TE-24 TAPE EDITING AND SPLICING BOOK. LET. By N. M. Haynes. Excellent for professional or amateur tape recordists. Helps you get more use and enjoyment from your tape recorder. Contains a variety of tips on spliceless editing; dubbing; erasing; of clicks, ticks or "pop" eraser-fading; etc. Illustrated. Size, 6x9". 24 pages.  
91 R 847. Postpaid in U.S.A..... 24c

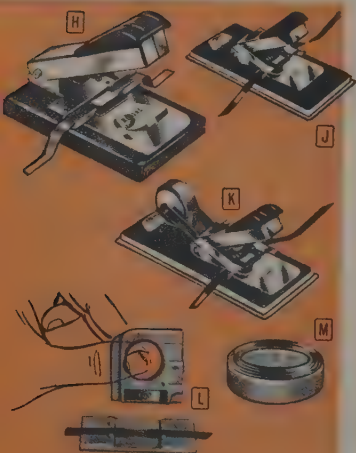
90 R 941. TE-48. "Television Tape Recording." By Goodall. 48 pages. Ppd. in U.S.A. 69c

90 R 927. TE-128. "How to Get the Most Out of Tape Recording." By L. Sheridan. Stereo; 128 pages. Postpaid in U.S.A..... 69c

**F** HC-2 TAPE HEAD CLEANER. An efficient solvent for removing distortion-producing dirt, grime and oxides from heads. Bottle cap has attached brush applicator. A valuable "must" for every tape enthusiast. With instructions. Bottle contains 2 fluid ounces. Shpg. wt., 4 oz.  
90 R 921. List, \$1.00. NET..... 69c

**G** RH-2 TAPE REEL HOLDER. Holds reel securely in place; prevents wobbling. Shpg. wt., 3 oz. Package of two.  
90 R 926. List, 85c. NET..... 58c

## PROFESSIONAL SPLICES WITH FAMOUS "GIBSON GIRL" TAPE SPLICING EQUIPMENT



**H** TS4A-JR TAPE SPICER. Compact; splicer for rapid tape editing and repairs. Has replaceable cutter cartridge. Cuts tape diagonally, and trims concave indentation on sides of splice to prevent binding. Uses 1/2" tape. With 3 blades. 2x3". Wt. 7 oz.  
92 R 983. List, \$6.50. NET..... 4.39

**J** TS4A-STD TAPE SPICER. As above, but with toggle-action hold down fingers, cover and 3 blades. 2 1/4 x 5 3/4". 8 oz.  
92 R 985. List, \$8.50. NET..... 5.75

**K** TS4A-DLX TAPE SPICER. Same as Model TS4A-STD, but with attached splicing tape dispenser. With tape. Wt. 12 oz.  
92 R 984. List, \$11.50. NET..... 7.77

**L** SP-4 "SEMI-PRO" TAPE SPICER. Small, low-cost, tape splicer—makes diagonal and concave trim cuts. Consists of tape alignment guide and cutting surface, cutting unit, and blade cover. Shpg. wt., 2 oz.  
92 R 986. List, \$3.50. NET..... 2.37

RK-2 REPLACEMENT KIT FOR TS4 SPICERS. (Not illus.) Consists of replacement cutter cartridge for miter and trimming cuts; and two cutting pads. Shpg. wt., 4 oz.  
92 R 987. List, \$1.25. NET..... 85c

**M** ST-500 SPLICING TAPE. Roll of quality tape. 1/2" wide; 100' length. 2 oz.  
95 R 713. List, 50c. NET..... 33c

HANDY ROBINS TAPE ACCESSORY KITS. Contain everything you need for better care of your tapes and tape heads, and easier tape splicing and editing.

MODEL TK-2 KIT. Includes: HC-2 head cleaner and JCT-2 cloth. Shpg. wt., 8 oz.  
90 R 925. List, \$2.00. NET..... 1.35

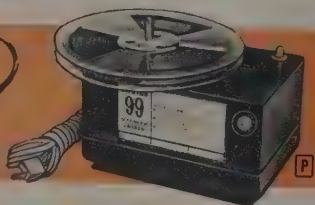
MODEL TK-4H KIT. Includes: H4 tape splicer, JCT-2 "jockey" cloth, ST-500 splicing tape, TC-12 tape clips, and TE-24 tape booklet. Shpg. wt., 1 lb.  
90 R 924. List, \$3.50. NET..... 2.36

MODEL TK-4JR KIT. Includes: TS4A-JR splicer, HC-2 cleaner, ST-500 tape, TT-1 threader, JCT-2 cloth, TC-12 clips, SL-30 labels, and TE-24 booklet. Shpg. wt., 1 1/2 lbs.  
90 R 923. List, \$10.00. NET..... 6.75

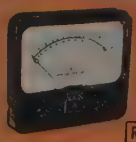
MODEL TK-4STD KIT. As above, but TS4A-STD splicer in place of TS4A-JR. 1 1/2 lbs.  
29 R 648. List, \$12.00. NET..... 8.10



**N** NEW MODEL HD-3JR HEAD DEMAGNETIZER. In order to maintain "like new" performance from your recorder, remove the residual magnetization that builds up on tape heads. Demagnetization insures optimum signal-to-noise ratio, reduces noise level, and protects your recorded tapes. This compact, easy-to-use demagnetizer does the job in seconds—just place the HD-3's pole piece against the tape head and slowly move the demagnetizer away from the head. Compact size, 3 1/2" long, 1 1/4" diameter. For operation from 110 v., 60 cycle AC. Shpg. wt., 1/2 lb.  
90 R 948. List, \$5.95. NET..... 3.95



**P** MODEL ME-99 BULK TAPE ERASER. An important accessory for the serious recordist. Highly efficient and easy to use. Erases an entire reel of tape at one time; accepts any size reel up to 10". Lets you use older full or 2-track recorded tapes for re-record on new 4-track machines. Reduces background noise levels of tapes from 3 to 6 db below normal erase head levels. Can be used to demagnetize tape up to 1/2" wide. With instructions. Size, 5 1/4 x 6 3/4 x 3 3/4". For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 8 1/2 lbs. No Money Down.  
90 R 922. List, \$33.00. NET..... 22.27



**R** MODEL VU-100 4 1/2" VU METER. Shows overload distortion. 2-color scale: 0-100 modulation percentage; -20 to +3 VU. Dual-impedance input. Sensitivity, 200  $\mu$ a; shunts for 1.2 or 12-v. "zero" VU. Mounts in 2 3/4" dia. hole; requires 1 1/2" depth. Shpg. wt., 1 lb.  
90 R 930. List, \$24.95. NET..... 14.85

**S** MODEL TK-5 TAPE STROBE KIT. Lets you check the speed, flutter and wow accuracy of recorders operating at 15, 7 1/2, and 3 3/4 ips speeds. With instructions. For 110 v., 60 cycle AC. Shpg. wt., 1 1/2 lb.  
90 R 949. List, \$2.00. NET..... 1.35





WR-35



WR-60



W-6

# Northronics Recording Accessories

Model PL-100

Model RA-100



## 4-TRACK STEREO CONVERSION KITS

- O DEL WR-35. Playback kit for Wollensak and Revere stereo units. Retains 2-track and monophonic operation. Wt., 6 oz.
- O RC 938. No Money Down. NET..... 25.50
- O RC 480. Model WR-60. As above, but for 4-track stereo and mono play and record as well as 2-track. 12 oz. NET..... 49.50
- O DEL P-6. 4-track stereo playback kit for all Pentron recorders. Retains monophonic record function. Shpg. wt., 6 oz.
- O RC 481. No Money Down. NET..... 29.70
- O RC 482. Model P-7. Pentron erase head kit for 4-track stereo recording. Use with P-6 kit and RA-100. Wt., 6 oz. NET..... 15.00
- O DEL V-6. For use with all V-M 2-track units. Adapts to 2 and 4-track stereo play and monophonic record. Shpg. wt., 6 oz.
- O RC 939. No Money Down. NET..... 25.50
- O RC 483. Model V-7. V-M erase head kit for 4-track stereo recording. Use with V-6 kit and RA-100. Wt., 6 oz. NET..... 14.50
- O DEL W-6. Playback for Webcor Series 2000 (except 2020, 2800 and 2900's; retains monophonic record/play. Wt., 6 oz.
- O RC 940. No Money Down. NET..... 36.00
- O RC 484. Model W-7. Webcor erase head for 4-track stereo recording. Use with W-6 kit and RA-100. Wt., 6 oz. NET..... 14.50

## 2 AND 4-TRACK STEREO AND MONOPHONIC TAPE HEADS

Professional-type, featuring laminated-core design for superior response and sensitivity. All are high impedance. Response of stereo heads: 30-15,000 cps, 50 db cross-talk rejection; mono heads: 30-13,000 cps. Erase heads have double gap giving 60 db erasure. Av. wt., 6 oz.

| Base Mount Stock No. | Side Mount Stock No. | Rear Mount Stock No. | Mfr's Type | Description of Head  | NET EACH |
|----------------------|----------------------|----------------------|------------|----------------------|----------|
| 90 RC 931            | 90 RC 932            | 90 RC 933            | TLB-2      | 4-Track stereo r/p   | 21.60    |
| 90 RC 944            | 90 RC 943            | 90 RC 942            | SEQ-1      | 4-Track stereo erase | 12.50    |
| 90 RC 934            | 90 RC 935            | 90 RC 936            | TLA-3      | 2-Track stereo r/p   | 23.80    |
| 90 RC 485            | 90 RC 486            | 90 RC 487            | SEH-1      | 2-Track stereo erase | 12.50    |
| 90 R 913             | 90 R 914             | 90 R 915             | SLS-1      | 2-Track mono r/p     | 8.90     |
| 90 RC 488            | 90 RC 489            | 90 RC 490            | MEH-1      | 2-Track mono erase   | 8.50     |
| 90 R 491             | 90 R 492             | 90 R 493             | MEQ-1      | 4-Track mono erase   | 7.50     |

O R 494. AT-100 Alignment Tape. 7 1/2 ips, full-track recording for azimuth alignment of playback heads, and to check equalization. Shpg. wt., 6 oz. NET..... 4.95

O R 495. L-5 Mounting Bracket. For special mounting arrangements. Universal mounting for any recorder when used with side-mount heads. Shpg. wt., 3 oz. NET..... 50c

## SHURE EXACT-REPLACEMENT TAPE RECORDER HEADS

Quality tape recorder heads for modernization and replacement use. If in doubt as to the unit to select, send make, model no. of recorder to Allied for replacement data. TR21C-J and TR16-J are .0093" upper-track record/playback types; others are standard record/playback, erase. \*Has Cinch plug and 14" leads.

| Stock No. | Type    | Coil Imp. | Replaces Older Type | Oz. | List  | NET   |
|-----------|---------|-----------|---------------------|-----|-------|-------|
| 85 R 366  | 815     | Low       | TR5, TR5D, TR5H     | 3   | 15.00 | 8.82  |
| 85 R 584  | 815H    | High      | TR5C, TR5K, TR5L    | 3   | 15.00 | 8.82  |
| 92 R 982  | TR21C-J | High      | TR16A, 817          | 2   | 14.00 | 8.23  |
| 85 R 586  | TR5B-J* | Low       | TR5B                | 3   | 17.00 | 9.99  |
| 85 R 237  | TR5Z-2  | High      | TR5Z-1              | 3   | 18.50 | 11.10 |
| 85 R 413  | TR16-J  | High      | .....               | 2   | 9.00  | 5.29  |

## SELECTED TAPE RECORDING ACCESSORIES

O KLEEN-TAPE. For fast cleaning of tape heads, just run this 5" reel of chemically treated cloth tape across the heads of your recorder. Wt., 4 oz.

O R 846. List. \$2.95. NET..... 1.73

O BINS M/M HEADS. Record and play tape heads for replacement and conversion.

O M20-108, rear mount; others, side mount. Mono 1/2-track, except \*4-track stereo. 6 oz.

| Stock No. | Mfr's Type | Replaces                                          | List  | NET   |
|-----------|------------|---------------------------------------------------|-------|-------|
| 90 RC 946 | 3FM20-108  | 3FM20                                             | 16.00 | 10.80 |
| 90 RC 945 | 3120       | 2120, 2135, 2M40, 3M20A                           | 14.00 | 9.45  |
| 90 RC 947 | 7L17       | 5L20, 9L20S, 10L17 (B. S.), 10L20S, 10L70, 10M70A | 14.00 | 9.45  |
| 90 RC 928 | 5Q17*      | 08Q8, 5Q8, 5Q08                                   | 30.00 | 20.25 |

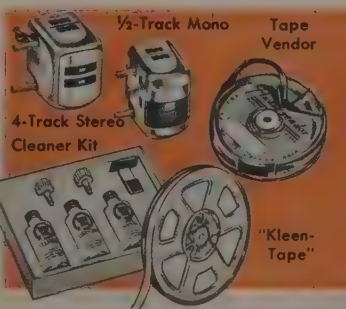
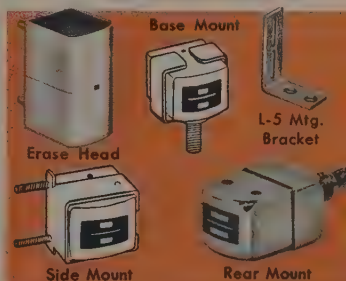
O "LONG LIFE" TAPE CLEANER KIT. Consists of one bottle each of tape head cleaner, tape head lubricant, and tape conditioner. Conditioner fluid has tower applicator to condition tape while it is being played. Capillary wick applicators dispense fluid uniformly. In plastic bottles. Wt., 1 lb.

O R 778. NET..... 3.45

O COUSINO MODEL U-310C TAPE VENDOR. Plays tape-recorded music or messages continually. Fits all 3 1/4-ips recorders—plays up to 12 minutes as supplied; 24 minutes with Moebius loop. Reel moves in clockwise rotation. Complete with friction-free tape. Shpg. wt., 1 1/2 lbs.

O R 848. NET..... 9.75

O R 849. Model U-310CC. As above, but has counter-clockwise rotation. NET..... 9.75



# LINCOLN

# TRANSISTOR RADIOS FOR



## 6 TRANSISTORS

Remarkable Reception of Standard AM Broadcasts



With Case, Earphone and Battery

## 6-TRANSISTOR POCKET RADIO

ONLY  
**\$1348**

NO MONEY DOWN

- Ultra-Compact—Lightweight Design
- Receive AM Broadcasts Wherever You Go—Earphone for Private Listening
- Shirt Pocket Radio With a Big Sound
- Beautifully Styled in Plastic and Brass

A remarkable value, this pocket radio offers first-class styling and performance! Carry it anywhere—keep posted on news, sporting events and the latest tunes by making this little beauty your constant companion! It's packed with the outstanding features of sets costing much more. Employs 6 transistors, 1 diode and 1 thermistor. Has 2 1/4" speaker designed to reproduce crisp, undistorted sound. The tuning dial features an easy-to-read 3/4" optic glass that magnifies the numerals as you dial to your favorite station. Has earphone jack and 1 earphone for private listening wherever you go. Two separate thumb-wheel knob controls for Off-On/Volume and Tuning. The fold-out easel stand makes this miniature receiver a convenient table radio. Complete with a beautiful carrying case, earphone for private listening, and battery. Size, 3 1/8 x 2 1/2 x 1 1/8". Shpg. wt., 1 1/4 lbs.

23 SC 204. NET.....13.48  
53 J 112. Replacement Battery. Shpg. wt., 3 oz. NET.....39c

## 3 BANDS

- LONGWAVE
- AM BROADCAST
- SHORTWAVE



With Case, Earphone, Battery



## 9-TRANSISTOR PORTABLE 3-BAND RADIO

ONLY  
**\$3288**

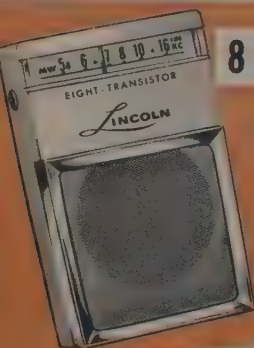
NO MONEY DOWN

- Has 3 Built-In Antennas—SW Telescoping Whip; BC Band Ferrite Rod; Plus Longwave Antenna
- Includes Carrying Case, Batteries, and Earphone
- For AM Broadcast, Shortwave and Longwave Reception

Exceptional longwave, broadcast, and shortwave reception from a truly portable unit. Beautifully styled in polished aluminum, it combines superb design and precision craftsmanship. Pocket size so you can take it with you for listening pleasure wherever you go. Tunes 150 to 450 kc for marine, aircraft, and weather; 530 to 1600 kc for standard AM broadcasts; and 4 to 12 mc shortwave for international broadcasts. Hams, WWV, etc. Its 3 antennas provide optimum sensitivity on each band: telescoping whip for shortwave; ferrite rod for AM broadcasts; plus a built-in longwave antenna. Has easy-viewing slide-rule dial with high-ratio tuning for accurate pin-pointing of stations. Built-in earphone jack permits private listening in quiet areas. Carrying handle folds back to become an easel. Powered by 4 penlight cells. Complete with batteries, rugged plastic case and earphone. Size, 6 1/4 x 4 1/4 x 1 1/4". 1 1/2 lbs.

23 SC 202. No Money Down. NET.....32.88  
53 J 031. Replacement Penlight Battery. Requires 4. Wt., 2 oz. EA. 10c

## 8 TRANSISTORS



With Case, Earphone, Battery

Outstanding Reception Wherever You Go

A True Miniature Watch-Radio

## 8-TRANSISTOR POCKET RADIO

ONLY  
**\$1975**

NO MONEY DOWN

A rare value, this precisely designed pocket radio features workmanship of the highest order. Lightweight and compact in size, yet it covers the entire standard broadcast band with sensitivity that will amaze you. You will marvel at its "pull-in" power and the clear rich sound from its 2 1/4" speaker. Features convenient full-vision slide-rule dial with vernier tuning—lets you pin-point your favorite stations quickly and easily. Highly efficient 8-transistor circuit utilized in this miniature receiver, makes this unit one of the most powerful pocket radios available. Thumbwheel controls for Off-On/Volume and Tuning. Supplied complete with built-in stand and all accessories, including carrying case, battery and earphone for your own personal listening. Size, 4 1/4 x 2 1/2 x 1". Shpg. wt., 12 oz.

23 SC 201. No Money Down. NET.....19.75  
53 J 112. Replacement Battery. Wt., 3 oz. NET.....39c

## 6-TRANSISTOR POCKET WATCH-RADIO

ONLY  
**\$2995**

NO MONEY DOWN

A real triumph in compact design, this all-new, magnificently styled receiver doubles as both a deluxe pocket radio and as a watch-radio! Just flip the handy thumbwheel switch to Manual and you have a full-toned 6 transistor receiver for hours of listening pleasure in your home, office or shop. Switch to Automatic, set pointer on the clock dial to the desired hour, and you'll be awakened the next morning to music—then, after 45 minutes of operation, radio automatically turns off. Or, if you prefer, you can set clock for 45 minutes of music to lull you off to sleep. This wallet-size wonder has a built-in spring-powered watch with a seven jewel movement for precise time-keeping. The vernier tuning dial utilizes an "optic window" for accurate tuning of your favorite stations. The built-in easel stand can quickly convert this pocket radio into a table model clock-radio. Behind the beautiful gold speaker grille, is a high quality speaker designed for clean reproduction of sound. Hinged jewelry-type case is of high-impact plastic with gold trim. Supplied complete with batteries and earphone for private listening. Size, 3 1/2 x 4 3/4 x 7/8". Wt., 1 1/2 lbs.

23 SC 200. NET.....29.95  
53 J031. Replacement Penlight Battery. Requires 3. Wt., 3 oz. EA. 10c



# ENTERTAINMENT WHEREVER YOU GO

Unexcelled Listening Pleasure



## 4-TRANSISTOR FM-AM PORTABLE RADIO

ONLY  
**\$54.88**  
NO MONEY DOWN

This superb radio brings you the superior sound of static-free FM, plus outstanding reception of standard AM broadcasts. The powerful 14-transistor circuit incorporates 4 diodes and 1 thermistor—tunes 88-108 mc on FM, 535-1605 kc on AM. Features: AFC for locking-in FM stations; Foster-Seeley discriminator; high-low tone control; earphone jack, tuner output jack for playing through your hi-fi system; precision slide rule dial and high gear ratio tuning. Plays 400 hours on 4 flashlight cells. Complete with batteries and earphone. In beautiful black plastic case. FM dipole antenna folds into handle; also has AM ferrite bar. Size,  $7\frac{1}{2} \times 9\frac{1}{4} \times 3\frac{1}{8}$ ". Wt., 3 $\frac{1}{2}$  lbs.

13 SC 205. No Money Down. NET.....**54.88**  
13 J 009. Replacement Battery. Requires 4. Wt., 5 oz. NET....14c



## 10-TRANSISTORS

## 10-TRANSISTOR FM-AM PORTABLE RADIO

ONLY  
**\$46.50**  
NO MONEY DOWN

- Thrilling, Static-Free FM Programming Plus Your Favorite AM Broadcasts
- Built-in FM and AM Antennas
- Special Speaker for Rich, Full Reproduction

You'll get unlimited listening pleasure from this deluxe FM-AM portable radio that combines sophisticated styling with excellent performance. Now, you can enjoy the superior sound of static-free FM reception, plus your favorite AM programs. In the home or away, this 10-transistor receiver is an outstanding performer. This superb unit incorporates: A highly sensitive 10-transistor circuit; twin telescoping 24" chrome whip antennas; built-in ferrite rod AM antenna; easy-to-read slide rule dial; four controls—Off-On/Volume, Tone Control, FM-AM Switch and high ratio Tuning Control;  $3\frac{1}{2} \times 4$ " speaker assures you of quality reproduction. A leather braid carrying handle is located atop the brown and cream plastic case. Size,  $5\frac{1}{2} \times 8\frac{1}{2} \times 2\frac{1}{2}$ ". Shpg. wt., 5 lbs.

23 SC 203. No Money Down. NET.....**46.50**  
53 J 009. Replacement Battery. Requires 4. Wt., 4 oz. NET....14c

## KINEMATIX AND SAMPSON DELUXE AUTO RADIOS

## NEW ... From kinematix



## High-Fidelity FM RADIO for Your Car

NET  
**\$84.49**  
NO MONEY DOWN

- Driving is a Pleasure With FM Fidelity
- Drift-free Reception—Living Room Quality
- Ruggedly Designed to Withstand Shock
- Engineered to Provide Dependable Service

An FM receiver to give you the variety of entertaining programs available on static-free FM broadcasts. Now, on one chassis you get an FM receiver for your car which is equal to larger home radios in quality of reproduction. With the addition of any high efficiency 4-ohm speaker, you can drive your car in musical relaxation. The Skylark 500 receiver is designed to withstand the shocks encountered in mobile use. Completely hand-wired—no printed circuitry. Specifications: 1F bandwidth, 180 kc; sensitivity, 2.5  $\mu$ v for 20 db signal to noise ratio; selectivity, 40 db image rejection and 60 db IF rejection; four IF stages; two limiters; Foster-Seeley discriminator; output impedance, 8 ohms; output power, 5 watts. Has tone control and fused input. 8 tubes plus 1 transistor. Mounts below dash—extremely simple installation. For 12 v. DC negative ground only (most American cars use neg. ground). Less speaker and antenna. Only  $2\frac{1}{2} \times 7\frac{1}{2} \times 8\frac{1}{4}$ ". Shpg. wt., 9 lbs.

19 SX 696. No Money Down. NET.....**84.49**

See Complete Selection of Auto Radio Speakers and Antennas Listed Elsewhere in This Catalog



**SAMPSON**  
MODEL 55A

**FREE!**

WITH THIS RADIO  
Speaker and Antenna

## 6-TRANSISTOR PUSHBUTTON AUTO RADIO WITH ANTENNA AND SPEAKER

NET  
**\$39.78**  
NO MONEY DOWN

- Compact in Size—Low in Price
- Outstanding All-Transistorized Circuit
- For 6 or 12 Volts—Just Flip the Switch
- Pushbuttons Select Any Five Stations

An outstanding value in auto radios. Gives superior reception of AM broadcasts through an all-transistor circuit of advanced design. Now, you can enjoy music on the road with a quality comparable to AM radio consoles. Unit may be installed beneath or fitted into your dashboard. Three separate controls for manual tuning, Off/On and Volume, and Tone. The pushbutton panel permits selection of five stations. The 55A superheterodyne radio has an efficient transistor output of  $2\frac{1}{2}$  watts. Will operate in all cars—polarity may be changed to match the electrical system of your car with the flip of the polarity switch. Supplied complete with antenna and efficient, full-toned speaker. For operation from 6 or 12 volt DC. Size,  $6\frac{1}{2} \times 7\frac{1}{4}$ ". Shpg. wt., 6 lbs.

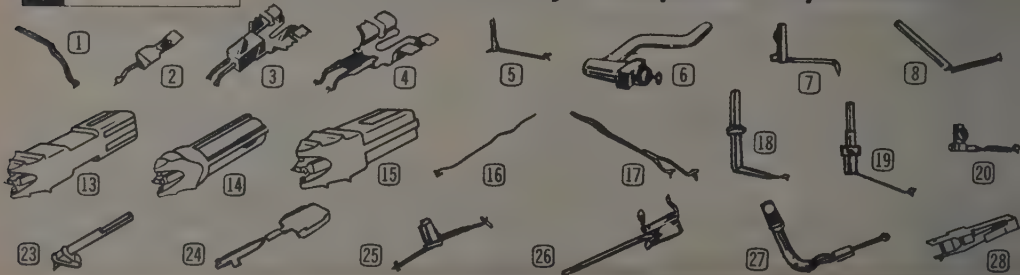
89 SX 695. No Money Down. NET.....**39.78**

Allied Guarantees Your Complete Satisfaction



# KNIGHT

## Famous-For-Quality Monophonic Replacement



### EXACT-REPLACEMENT MONOPHONIC NEEDLES

Top-quality monophonic replacement needles at new low prices. All are precision-made to rigid Knigt specs. Sapphire tips, except \*osmium. Letters or numbers, following the word "Series" in the listings cover all cartridges whose type numbers begin with these letters or nos. 2 oz.

#### FOR SHURE CARTRIDGES

| Stock No. | Type     | Fig. | Fits Cartridge Numbers                                                                                          | Tip  | EACH |
|-----------|----------|------|-----------------------------------------------------------------------------------------------------------------|------|------|
| 68 R 397  | JPS-30   | 1    | P30, P37, P57, P70, P71, P72, P72V, P73, P76, P76V, P77, P79, P81, P81AD, P85, P88, 89, P94, P930, PC41V, PC42; | Std. | .98  |
| 68 R 398  | JPS-30LP | 1    | W60, W61, W62, W23, W26, W68, W68, W622                                                                         | MG   |      |
| 68 R 399  | JPS-312  | 1    | Series W21, W22, W23, W26, W60, W61, W62, W65B, W66, W68, W622                                                  | All  |      |
| 68 R 320  | JPS-32   | 2    | W31AR, W36B, WC24, WC31AR, WC33B, WC36B, PC9, PC10, PC11, PC40                                                  | Std. |      |
| 68 R 321  | JPS-32LP | 2    | WC-6, PC-6, PC-7                                                                                                | MG   | .98  |
| 68 R 322  | JPS-322  | 2    | PC2, PC3, P7, P8, P9, W9, WC10                                                                                  | All  | .98  |
| 68 R 741  | JPS-39   | 3    | PC4, PC5, ML-44                                                                                                 | Twin | 2.48 |
| 68 R 323  | JPS-35   | 4    |                                                                                                                 | Twin | 1.38 |
| 68 R 324  | JPS-36   | 4    |                                                                                                                 | Twin | 2.48 |

#### FOR ASTATIC CARTRIDGES

| Stock No. | Type     | Fig. | Fits Cartridge Numbers                     | Tip  | EACH |
|-----------|----------|------|--------------------------------------------|------|------|
| 68 R 362  | A-67     | 5    | 94-TB, 405, 406, Series: 62, 64, 66, 68    | Std. | .98  |
| 68 R 363  | A-67LP   | 5    |                                            | MG   | .98  |
| 68 R 364  | A-67L    | 5    |                                            | All  | .98  |
| 68 R 365  | A-68     | 6    | Series: 55-T                               | Twin | 1.38 |
| 68 R 366  | A-71     | 6    | Series: 55-T, GCD, 409                     | Twin | 1.38 |
| 68 R 367  | A-70*    | 7    |                                            | Std. | .58  |
| 68 R 368  | A-70LP*  | 7    | Series: 14L3, 15L3                         | MG   | .58  |
| 68 R 369  | A-702*   | 7    |                                            | All  | .58  |
| 68 R 370  | A-73     | 8    |                                            | Std. | .98  |
| 68 R 371  | A-73LP   | 8    | LT-3D, LT-4, LT-4D, LT-4D1, LT-AG          | MG   | .98  |
| 68 R 372  | A-732    | 8    |                                            | All  | .98  |
| 68 R 373  | A-74     | 9    |                                            | Std. | .98  |
| 68 R 374  | A-74LP   | 9    | Series: 402, 51, 53, 59, GC, MG            | MG   | .98  |
| 68 R 375  | A-742    | 9    |                                            | All  | .98  |
| 68 R 376  | A-75     | 10   |                                            | Std. | .98  |
| 68 R 377  | A-75LP   | 10   | 10L3, 11L3, Series AC, ACD, 40, 41, 42, 90 | MG   | .98  |
| 68 R 378  | A-752    | 10   |                                            | All  | .98  |
| 68 R 379  | A-81     | 11   | Series: CAC, CQ, LQD, QT                   | Std. | .98  |
| 68 R 380  | A-81LP   | 11   | 36, 38, 44, 46, 48; 4031;                  | MG   | .98  |
| 68 R 381  | A-812    | 11   | Magnavox 560052                            | All  | .98  |
| 68 R 382  | CRA-55LP | 12   | Series: 310, 312, 414, 420, 422, 424       | MG   | .98  |
| 68 R 383  | CRA-55   | 12   |                                            | Std. | .98  |
| 68 R 499  | A-41     | 13   | 81T                                        | Twin | 1.98 |
| 68 R 483  | A-43     | 13   | 89T                                        | Twin | 1.98 |

## NEW LOW PRICES ON DIAMOND NEEDLES



Ordinary Point at 400 Plays



Diamond Point at 1000 Plays

78's but may be specially ordered with twin diamond tips. †Also for Bopunkt and Telefunken. Wt., 2 oz.

| Stock No. | Type No.  | Fig. | For          | Equivalent NET                        |
|-----------|-----------|------|--------------|---------------------------------------|
| 68 R 733  | A-67LPD   | 5    | Astatic      | A-67LP                                |
| 68 R 700  | A-68SD    | 6    | Astatic      | A-68                                  |
| 68 R 734  | A-74LPD   | 9    | Astatic      | A-74LP                                |
| 68 R 701  | A-75LPD   | 10   | Astatic      | A-75LP                                |
| 68 R 702  | A-81LPD   | 11   | Astatic      | A-81LP                                |
| 68 R 482  | A-41SD    | 13   | Astatic 81TX | A-41                                  |
| 68 R 484  | A-43SD    | 13   | Astatic 89TX | A-43                                  |
| 68 R 703  | E-90LPD   | 16   | E-V          | E-90LP                                |
| 68 R 619  | E-36SD    | 14   | E-V 56DS     | E-36                                  |
| 68 R 622  | E-37SD    | 15   | E-V 76DS     | E-37                                  |
| 68 R 274  | G-1D      | 28   | G.E.         | RPX Series                            |
| 68 R 471  | G-4D      | 29   | G.E.         | 4G-041, 050, 052, 053, 061, 063, VR11 |
| 68 R 294  | RX552LPD  | 25   | † Grundig    | RX552LP                               |
| 68 R 704  | M-50SD    | 25   | Magnavox     | M-50                                  |
| 68 R 737  | PH-13SD   | 21   | Philco       | PH-13                                 |
| 68 R 705  | CRA-55LPD | 12   | Ronette      | CRA-55LP                              |
| 68 R 472  | CRA-57LPD | 24   | Ronette      | CRA-57LP                              |
| 68 R 706  | JPS-30LPD | 1    | Shure        | JPS-30LP                              |
| 68 R 736  | JPS-35SD  | 4    | Shure        | JPS-35                                |
| 68 R 707  | JPS-36SD  | 4    | Shure        | JPS-36                                |
| 68 R 708  | M-70LPD   | 18   | RCA          | M-70LP                                |
| 68 R 709  | M-74LPD   | 19   | RCA          | M-74LP                                |
| 68 R 710  | S-60LPD   | 26   | Sonotone     | S-60LP                                |
| 68 R 711  | S-61SD    | 27   | Sonotone     | S-61                                  |
| 68 R 712  | S-66SD    | 27   | Sonotone     | S-66                                  |
| 68 R 485  | VA-29LPD  | 22   | Vaco         | VA-29LP                               |

#### FOR ELECTRO-VOICE CARTRIDGES

|          |        |    |                                        |      |      |
|----------|--------|----|----------------------------------------|------|------|
| 68 R 618 | E-36   | 14 | E-V 56                                 | Twin | 1.98 |
| 68 R 621 | E-37   | 15 | E-V 76                                 | Twin | 1.98 |
| 68 R 384 | E-90   | 16 | 10, 12, 14, 30, 32, 33, 34, 36, 40, 42 | Std. | .98  |
| 68 R 385 | E-90LP | 16 | 43, 44, 46, 80, 82, 84, 86, 96         | MG   | .98  |
| 68 R 386 | E-902  | 16 | Admiral 409A13-1                       | All  | .98  |
| 68 R 387 | E-91   | 17 | 16T1, 22T1                             | Twin | 1.38 |

#### FOR RCA CARTRIDGES

| Stock No. | Type No. | Fig. | Fits Cartridge Numbers                                              | Tip  | NET EACH |
|-----------|----------|------|---------------------------------------------------------------------|------|----------|
| 68 R 337  | M-70     | 18   | 9890, 38598, 39550, 39851, 39919, 70332, 70338, 70339, 72551, 74067 | Std. | .98      |
| 68 R 339  | M-70LP   | 18   |                                                                     | MG   |          |
| 68 R 341  | M-74     | 19   | 74625, 75475, 75575, Series: 310, 312, 414, 420, 76318, 77779       | Std. |          |
| 68 R 342  | M-74LP   | 19   |                                                                     | MG   | .98      |

#### FOR PHILCO CARTRIDGES

|          |        |    |                             |      |      |
|----------|--------|----|-----------------------------|------|------|
| 68 R 389 | M-60LP | 20 | 45-1609, 45-1612            | MG   | .98  |
| 68 R 742 | PH-13  | 21 | 76-4649; 425-0009, 425-0014 | Twin | 1.38 |

#### FOR VACO CARTRIDGES

|          |         |    |      |      |     |
|----------|---------|----|------|------|-----|
| 68 R 253 | VA-29   | 22 | P45  | Std. | .98 |
| 68 R 254 | VA-29LP | 22 | P45  | MG   | .98 |
| 68 R 255 | VA-292  | 22 | S-45 | Twin | .98 |
| 68 R 486 | J-352*  | 23 | M-50 | All  | .58 |

#### FOR RONETTE CARTRIDGES

|          |          |    |                                                                               |      |     |
|----------|----------|----|-------------------------------------------------------------------------------|------|-----|
| 68 R 383 | CRA-55   | 12 | Studio O, Studio P, RA-284, TO-284 Series TO-222, TO-400, 7447, DT-60, RA-395 | Std. | .98 |
| 68 R 382 | CRA-55LP | 12 |                                                                               | MG   |     |
| 68 R 474 | CRA-57   | 24 | DC-422                                                                        | Std. |     |
| 68 R 473 | CRA-57LP | 24 | DC-500                                                                        | MG   | .98 |

**IF YOUR NEEDLE IS NOT LISTED...**

Allied stocks exact replacement needles for any domestic or foreign-make cartridge. If yours is not listed, write us. Include cartridge or needle number and specify tip radius. Standard .003" for 78's; .001" for microgroove LP's; .002" for all records. Twin tips are .003" and .001". Indicate sapphire, diamond, dual, etc.



# Phonograph Needles



## FOR GENERAL ELECTRIC CARTRIDGES

| Stock No. | Type | Fig. | Fits Cartridge Numbers | Tip | NET EACH |
|-----------|------|------|------------------------|-----|----------|
| 8 R 243   | G-1  | 28   | Series: RPX            | MG  | .98      |
| 8 R 688   | G-4  | 29   | 4G-052, 053, 061, 063  | MG  | .98      |

## FOR MAGNAVOX CARTRIDGES

|         |      |    |                                                |      |      |
|---------|------|----|------------------------------------------------|------|------|
| 8 R 388 | M-50 | 25 | 560133, 560133-4, 560151-5, 560151-6, 560158-1 | Twin | 1.38 |
|---------|------|----|------------------------------------------------|------|------|

## FOR SONOTONE CARTRIDGES

|         |        |    |                                                      |      |      |
|---------|--------|----|------------------------------------------------------|------|------|
| 8 R 343 | S-60LP | 26 | Series 3P                                            | MG   | 1.38 |
| 8 R 344 | S-61   | 27 | Series 3T                                            | Twin | 1.38 |
| 8 R 345 | S-63LP | 26 | Series 1P                                            | MG   | 1.38 |
| 8 R 346 | S-632  | 26 |                                                      | MG   | 1.38 |
| 8 R 347 | S-66   | 27 | Series 2T, 7T; W-9980; Magnavox 560161-1; RCA 878748 | Twin | 1.38 |

## FOR BLAUPUNKT, GRUNDIG, TELEFUNKEN

|         |          |    |        |    |     |
|---------|----------|----|--------|----|-----|
| 8 R 689 | RX552-LP | 30 | P-7000 | MG | .98 |
|---------|----------|----|--------|----|-----|

## KNIGHT NEEDLE-CARTRIDGE UNITS FOR ZENITH

lug-in pickups for "Cobra" arms. When needle is worn, entire unit must be replaced. For standard or microgroove. Shpg. wt., 4 oz.

| Stock No. | Zenith Type | Type No.       | Stylus   | NET EACH |
|-----------|-------------|----------------|----------|----------|
| 8 R 678   | Z-62        | S-15780        | Sapphire | 1.88     |
| 8 RC 679  | Z-62D       | S-15780        | Diamond  | 7.95     |
| 8 R 680   | Z-61        | S-15222        | Sapphire | 1.88     |
| 8 RC 681  | Z-61D       | S-15222        | Diamond  | 7.95     |
| 8 R 682   | Z-65        | 142-72         | Sapphire | 2.68     |
| 8 RC 683  | Z-65D       | 142-72         | Diamond  | 7.95     |
| 8 R 684   | Z-64        | 142-71, 142-74 | Sapphire | 2.68     |
| 8 RC 685  | Z-64D       | 142-71, 142-74 | Diamond  | 7.95     |
| 8 R 686   | Z-59        | 142-76, 142-77 | Sapphire | 3.98     |
| 8 RC 687  | Z-59SD      | 142-76, 142-77 | Diamond  | 8.95     |

## CONVENTIONAL-SHANK PHONO NEEDLES

long-lasting, economy-priced phono needles designed to fit phonograph cartridges equipped with screw-type chucks. Have "flat side" on shank for proper positioning. \*Have flexible nylon material from tip to shank to reduce pick-up of annoying record scratch. Sapphire-tipped needles recommended for minimum record wear—tip holds proper shape much longer than osmium types. Av. shpg. wt., 2 oz.

| Stock No. | Type No. | Fig. | Tip Material | Tip Size    | NET |
|-----------|----------|------|--------------|-------------|-----|
| 8 R 391   | NY-253*  | B    | Sapphire     | Standard    | .98 |
| 8 R 392   | J-10     | A    | Osmium       | Standard    | .58 |
| 8 R 393   | NY-252*  | B    | Sapphire     | All-purpose | .98 |
| 8 R 394   | NY-152*  | B    | Osmium       | All-purpose | .58 |
| 8 R 395   | J-152    | C    | Osmium       | All-purpose | .58 |
| 8 R 396   | NY-251*  | B    | Sapphire     | Microgroove | .98 |
| 8 R 743   | J-252    | C    | Sapphire     | All-purpose | .98 |



## Selected Record Care Accessories

### ROBINS ESK-3 RECORD CARE KIT

complete kit of cleaning and maintenance accessories for the music lover who wants to get the most out of his stereo or monophonic hi-fi records. Contains stylus pressure gauge that determines at what weight the turntable is turning; turntable level to insure that turntable is not tilted; stylus microscope to check needle condition; record cleaning cloth; automatic needle brush; record brush; and arm lift. Wt., 1 lb.

8 R 119. NET.....3.38

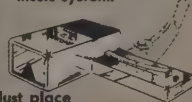
### SYL-A-SCOPE STYLUS INSPECTORS

Model SG-33. Projects stylus image on illuminated ground-glass screen. Less batteries, below (uses 2).  $5\frac{1}{2} \times 3\frac{1}{2} \times 1\frac{1}{4}$ ". 9 oz.  
59 R 990. NET.....4.49  
53 J 031. Battery, 2 oz. NET EACH.....10 c  
52 E 330. Extra Bulb, 2 oz. EACH.....17 c  
59 R 991. Model SG-66. Above, but for 110-120 v., 60 cycle AC. Metal case,  $7\frac{1}{2} \times 4\frac{3}{4} \times 3\frac{1}{4}$ ". NET.....13.46  
52 E 387. Extra Bulb. For SG-66. EACH 20 c



2 models—AC or battery power. Just place on turntable, set stylus on holder for huge image.

Deluxe record care kit—safeguards your records from dust and wear—gives you maximum enjoyment from your music system.



## NEW LOW PRICES On Stereo DIAMOND Needles

Top-quality, low-cost stereo replacement needles with .0007" radius for best sound. Dual-sapphire types include tip for 78's. In dual diamond-sapphire, types, sapphire tip is for 78's. Shpg. wt., 2 oz.

## DUAL NEEDLES—SAPPHIRE

| Stock No. | Type  | Fig. | For Cartridge Number | NET EACH |
|-----------|-------|------|----------------------|----------|
| 8 R 495   | S-71X | 33   | Sonotone 8T4, 8T4A   | 1.38     |
| 8 R 690   | S-75X | 44   | Sonotone 9T          | 1.38     |
| 8 R 491   | A-44X | 35   | Astatic 13T          | 3.88     |
| 8 R 493   | E-46X | 36   | Electro-Voice 66     | 2.88     |
| 8 R 497   | M-77X | 37   | RCA 106770A, 106771A | 1.38     |

## SINGLE NEEDLE—SAPPHIRE—STEREO ONLY

|         |         |    |                           |      |
|---------|---------|----|---------------------------|------|
| 8 R 749 | CRA-57X | 31 | Ronette BF-40             | .98  |
| 8 R 752 | E-98X   | 32 | Electro-Voice 26DST, 21-D | .98  |
| 8 R 756 | CRA-55X | 34 | BSR TC-8S/TC-8SH          | .98  |
| 8 R 487 | J-47X   | 38 | Jensen-53/Euphonic E-1    | .98  |
| 8 R 691 | G-19X   | 39 | G.E. VR-227               | 1.98 |

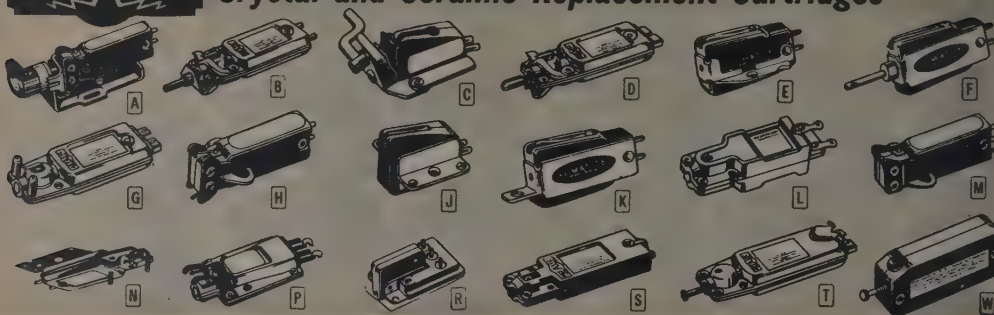
## DUAL NEEDLES—DIAMOND AND SAPPHIRE

|          |         |    |                      |      |
|----------|---------|----|----------------------|------|
| 8 R 496  | S-71XSD | 33 | Sonotone 8T4-8T4A    | 2.48 |
| 8 R 692  | S-75XSD | 44 | Sonotone 9T          | 2.48 |
| 8 R 762  | W60-XSD | 40 | Webster Electric     | 2.48 |
| 8 R 763  | W61-XSD | 41 | Webster Electric     | 2.48 |
| 8 RC 492 | A-44XSD | 35 | Astatic 13TX         | 6.95 |
| 8 RC 494 | E-46XSD | 36 | Electro-Voice 66DS   | 6.95 |
| 8 R 498  | M-77XSD | 37 | RCA 106770A, 106771A | 2.48 |

## SINGLE NEEDLE—DIAMOND—STEREO ONLY

|          |          |    |                           |       |
|----------|----------|----|---------------------------|-------|
| 8 R 693  | G-19XSD  | 39 | G.E. VR-227               | 2.48  |
| 8 R 694  | G-20XSD  | 39 | G.E. VR-225               | 2.48  |
| 8 R 750  | CRA-57XD | 31 | Ronette BF-40             | 2.48  |
| 8 R 753  | E-98XSD  | 32 | Electro-Voice 26DST, 21-D | 2.48  |
| 8 R 760  | CS-1XD   | 42 | Columbia                  | 2.48  |
| 8 R 757  | CRA-55XD | 34 | BSR TC-8S/TC-8SH          | 2.48  |
| 8 R 761  | W59-XD   | 34 | Webster Electric          | 2.48  |
| 8 RC 489 | JPS-40XD | 43 | Shure M7D                 | 6.95  |
| 8 RC 490 | JPS-41XD | 43 | Shure M3D                 | 13.25 |
| 8 RC 695 | JPS-42XD | 43 | Shure M2128M216           | 14.45 |
| 8 R 488  | J-47XD   | 38 | Jensen-53/Euphonic E-1    | 2.48  |

You Can Always Depend On Allied For Those Hard-To-Find Replacement Needles and Cartridges



## TURNOVER CARTRIDGES

High-quality dual-needle cartridges for 78, 45, 33 $\frac{1}{3}$  and 16 $\frac{1}{2}$  rpm records. Crystals are specially treated to resist heat and humidity.. All have sapphire needles; .001" for microgroove records and .003" tip for standard records. \*Ceramic type—all others are Rochelle-salt crystal. †Sub-miniature. ‡Less bracket. Av. shpg. wt., 4 oz.

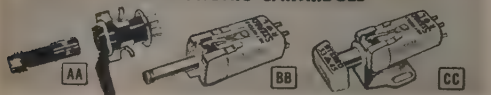
| Stock No. | Model     | Fig. | Replaces Astatic                  | Volts | CPS       | List | NET  |
|-----------|-----------|------|-----------------------------------|-------|-----------|------|------|
| 61 R 327  | 40-T      | A    | ACD, 10L3                         | 1.0   | 50-6000   | 6.95 | 4.09 |
| 65 R 240  | 40-TB     | A    | ACD-1 series                      |       |           |      |      |
|           |           |      | ACD-2 series, 11L3                | 1.0   | 50-6000   | 8.45 | 4.97 |
| 61 R 314  | 55-T      | C    | GCD series                        | 0.7   | 30-15,000 | 7.95 | 4.67 |
| 65 R 576  | 57-T*     | C    | 57-T1 series                      | 0.7   | 30-15,000 | 9.50 | 5.59 |
| 65 R 236  | 62-T†     | D    | LQD-1 series                      | 1.0   | 50-7000   | 7.95 | 4.67 |
| 68 R 766  | 64-TS†    | D    | 64-T(M)S                          | 3.0   | 50-5000   | 6.95 | 4.09 |
| 65 R 013  | 66-TS     | D    | 66-T(M)S, 68-TS                   | 3.0   | 50-5000   | 7.25 | 4.26 |
| 65 R 577  | 66-TY†    | D    | LT-4D1, 14L3-DM, 15L3-DM, 6-T(M)Y | 3.0   | 50-5000   | 6.50 | 3.82 |
|           |           |      | 68-T(M)Y                          | 0.75  | 30-15,000 | 6.45 | 3.79 |
| 61 R 310  | 118-TS†   | F    |                                   | 3.0   | 30-11,000 | 6.45 | 3.79 |
| 61 R 311  | 120-TS†   | F    |                                   | 3.0   | 30-11,000 | 6.45 | 3.79 |
| 61 R 300  | 310-T†    | F    |                                   | 3.0   | 30-11,000 | 5.45 | 3.20 |
| 61 R 302  | 312-T†    | F    |                                   | 0.75  | 30-13,000 | 6.45 | 3.79 |
| 68 R 767  | 314-TS†   | F    |                                   | 3.0   | 30-11,000 | 5.45 | 3.20 |
| 68 R 656  | 316-TS†   | F    |                                   | 0.75  | 30-13,000 | 5.95 | 3.50 |
| 68 R 929  | 406†      | F    | F-22(Webster)                     | 3.0   | 30-5000   | 7.95 | 4.67 |
| 68 R 770  | 409*      | C    | 409A11(Admiral)                   | 0.7   | 30-15,000 | 9.50 | 5.59 |
| 61 R 328  | 410       | P    |                                   | 0.8   | 50-6000   | 6.50 | 3.82 |
| 61 R 303  | 420-TS-TB | P    |                                   | 3.0   | 30-11,000 | 5.45 | 3.20 |
| 61 R 304  | 422-TS-TB | P    |                                   | 0.75  | 30-13,000 | 5.95 | 3.50 |
| 61 R 305  | 424-TS-TB | P    |                                   | 3.0   | 30-11,000 | 6.50 | 3.82 |
| 68 R 771  | 426-TS†   | P    | A-204(Webster)                    | 3.0   | 30-11,000 | 7.50 | 4.41 |

## ALL-GROOVE CARTRIDGES

Have .002" sapphire needle, except †.002" osmium, for playing all monophonic records. †Less needle—have screw-type chuck for conventional needle. \*Moisture resistant. Ceramic element. All others Rochelle-salt crystal. Av. shpg. wt., 4 oz.

| Stock No. | Model             | Fig. | Replaces Astatic    | Volts | CPS       | List | NET  |
|-----------|-------------------|------|---------------------|-------|-----------|------|------|
| 65 R 559  | 16 $\frac{1}{2}$  | G    | 16L3, 17L3          | 3.5   | 50-5000   | 3.95 | 2.32 |
| 65 R 229  | 28                | G    | L-29, L-92-33, 18L3 | 3.0   | 50-5000   | 3.95 | 2.32 |
| 61 R 316  | 28                | G    | M-22, M-23          | 3.5   | 50-6500   | 3.95 | 2.32 |
| 65 R 242  | 40-2              | L    | AC-AG series        | 1.0   | 50-10,000 | 6.50 | 3.82 |
| 65 R 571  | 51-2*             | J    | GC-AG series        | 0.7   | 30-10,000 | 7.40 | 4.35 |
| 65 R 097  | 66-2†             | G    | LT-2M, LT-AG, 68-2  | 3.0   | 50-5000   | 4.95 | 2.91 |
|           |                   |      | 14L-AGM 15L3-AGM    | 3.5   | 50-5000   | 4.95 | 2.91 |
| 68 R 772  | 106 $\frac{1}{2}$ | H    | (Webster)           | 3.0   | 30-11,000 | 4.95 | 2.91 |
| 61 R 306  | 310-2             | K    |                     | 3.0   | 30-11,000 | 4.45 | 2.62 |
| 68 R 773  | 414-2             | L    | (Ronette)           | 3.0   | 30-11,000 | 4.45 | 2.62 |
| 68 R 774  | 416-2             | L    | (Ronette)           | 0.75  | 30-13,000 | 5.45 | 3.20 |

## STEREOPHONIC CARTRIDGES



Series 70 Crystal Cartridges. Have .0007" and .003" sapphire styli; 18 db separation; 2 v.; 20-10,000 cps. \*With brackets. Av. wt., 3 oz.

| Stock No. | Type     | Fig. | Replacement For         | List | NET  |
|-----------|----------|------|-------------------------|------|------|
| 68 R 793  | 70TS     | BB   | Astatic 120TS, VM 7447A | 7.25 | 4.26 |
| 68 R 792  | 74TS     | BB   | Astatic 314TS           | 7.25 | 4.26 |
| 68 R 791  | *76TS-TB | CC   | Ronette T1, Ronette OV1 | 7.95 | 4.67 |

AA Plug-in Cartridge Assemblies. Ceramic element-styli. 25 db separation; 0.5 v.; 20-15,000 cps. Fit  $\frac{1}{8}$  to  $\frac{1}{2}$  mtg. 3 oz.

| Stock No. | Type  | Description                                | List  | NET  |
|-----------|-------|--------------------------------------------|-------|------|
| 68 R 794  | 11T7  | Two .0007" sapphire; less bracket          | 6.95  | 4.09 |
| 68 R 218  | 11T7B | Two .0007" sapphire; with bracket          | 7.95  | 4.67 |
| 68 R 657  | 13AT  | .0007", .003" sapphire; less brkt.         | 7.95  | 4.67 |
| 68 R 658  | 13ATX | .0007" diamond, .003" sapphire; less brkt. | 13.95 | 8.20 |
| 68 R 226  | 13T   | .0007", .003" sapphire; less brkt.         | 9.95  | 4.09 |
| 68 R 219  | 13TB  | .0007", .003" sapphire; with brkt.         | 7.95  | 4.67 |
| 68 R 220  | 13TBX | .0007" diamond, .003" sapphire; with brkt. | 11.95 | 7.02 |
| 68 R 228  | 13TX  | .0007" diamond, .003" sapphire; less brkt. | 10.95 | 6.44 |

## MICROGROOVE CARTRIDGES

Carefully constructed for dependable performance. All are crystal type, except \*ceramic type, unaffected by heat and humidity. With .001" sapphire needle for 45 and 33 $\frac{1}{3}$  rpm records. Needle pressure, 10 grams, except †8 grams, ‡6 grams. Av. shpg. wt., 4 oz.

| Stock No. | Type   | Fig. | Replaces Astatic | Volts | CPS       | List | NET  |
|-----------|--------|------|------------------|-------|-----------|------|------|
| 65 R 241  | 40-1†  | M    | AC series        | 1.0   | 50-10,000 | 6.50 | 3.82 |
| 65 R 234  | 51-1†  | J    | GC series        | 0.7   | 30-15,000 | 7.40 | 4.35 |
| 61 R 325  | 62-1   | P    | 62-1-M           | 3.0   | 50-5000   | 4.95 | 2.91 |
| 68 R 655  | 310-1† | K    |                  | 3.0   | 30-11,000 | 4.95 | 2.91 |
| 65 R 289  | 408    | P    |                  | 0.8   | 50-6,000  | 4.45 | 2.62 |
| 61 R 307  | 414-1† | E    |                  | 3.0   | 30-11,000 | 4.45 | 2.62 |

## STANDARD-GROOVE CARTRIDGES

High-output crystal types, except \*ceramic type. All models use .003" needles. †With osmium needle; others less needle—have screw-type chuck for conventional needle. Av. shpg. wt., 4 oz.

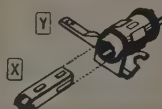
| Stock No. | Type | Fig. | Replaces Astatic                     | Volts | CPS       | List | NET  |
|-----------|------|------|--------------------------------------|-------|-----------|------|------|
| 65 R 158  | 2    | W    | B-2 (Magnavox)                       | 2.5   | 50-4000   | 9.00 | 5.29 |
| 65 R 156  | 4    | W    | L-22A, L-26A, L-27A                  | 1.4   | 50-4500   | 4.45 | 2.62 |
| 65 R 153  | 6    | S    | L-40A, L-41A                         | 0.6   | 50-4500   | 4.45 | 2.62 |
| 65 R 226  | 12   | T    | L-10, L-12                           | 1.25  | 50-5000   | 4.45 | 2.62 |
| 65 R 227  | 12-U | T    | L-12U                                | 1.25  | 50-5000   | 4.95 | 2.91 |
| 65 R 163  | 24   | S    | L-25A, series L-76                   | 1.0   | 50-4000   | 4.95 | 2.91 |
|           |      |      | L-71, L-75, L-70                     | 1.0   | 50-4000   | 4.95 | 2.91 |
| 65 R 165  | 26   | S    | L-46A, L-50A, L-72A                  | 3.5   | 50-4000   | 4.95 | 2.91 |
| 65 R 231  | 32   | S    | L-24A, L-36A, L-82A, L-92, L-32A, 34 | 3.5   | 50-5000   | 4.45 | 2.62 |
| 68 R 765  | 66-3 | G    | Series R30                           | 3.0   | 50-5000   | 4.95 | 2.91 |
| 65 R 149  | 402* | R    | 402A                                 | 0.7   | 50-10,000 | 7.95 | 4.67 |

## CERAMIC STEREO CARTRIDGES

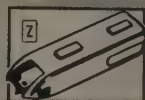
Series 17 Stereo Turnover Cartridges. (Not illustrated.) Response: 20-20,000 cps; 25 db channel separation. Tracking force, 4-5 grams; .35 volt output. Replaces E-V 26 series, RCA 106770A and 106771A, Sonotone 8TA4 series. Av. shpg. wt., 4 oz.

| Stock No. | Type | Description                    | List  | NET   |
|-----------|------|--------------------------------|-------|-------|
| 61 RC 364 | 17   | .0007", .003" sapphires        | 14.75 | 8.67  |
| 61 RC 365 | 17D  | .0007" diamond, .003" sapphire | 19.75 | 11.61 |

## "SOUNDFOLO" CARTRIDGE-NEEDLE COMBINATIONS



Plug-In Units  
Consisting of  
Cartridge and  
Needles



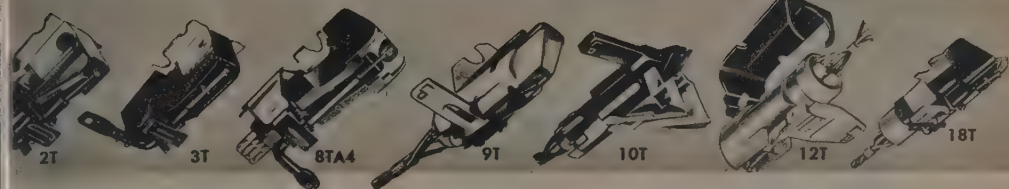
Ceramic monophonic cartridges. Frequency response: 30 to 15,000 cps. Tracking force, 6 grams. Cylindrical-shaped housing takes "plug-in" replacement cartridge-needle combination. Flip-over mounting bracket for stylus selection: .001" for LP's, .003" for 78's. Type 91T replaces Webster V8-1D, Webster A1919, E-V 76S; Type 91TX, Webster V8-2D, Webster A-1920, E-V 76DS; Type 93T, E-V 56S, Webster V8-1, Zenith 142-80; Type 93TX, E-V 56DS, Webster V8-1D, Zenith 142-83. "S"—sapphire; "D"—diamond tip. \*With mtg. bracket; turnover holder. Av. shpg. wt., 4 oz.

| Stock No. | Type   | Fig. | Tip              | Volts | List  | NET  |
|-----------|--------|------|------------------|-------|-------|------|
| 61 R 308  | 81TB*  | Z&Y  | S-.001", S-.003" | 1.0   | 4.95  | 2.91 |
| 61 R 309  | 81T    | Z    | S-.001", S-.003" | 1.0   | 3.95  | 2.32 |
| 61 R 317  | 81TX   | Z    | D-.001", S-.003" | 1.0   | 7.95  | 4.67 |
| 61 R 318  | 81TBX* | Z&Y  | D-.001", S-.003" | 1.0   | 8.95  | 5.26 |
| 68 R 661  | 89-1   | Z    | S-.001"          | 1.3   | 4.25  | 2.50 |
| 68 R 662  | 89-1D  | Z    | D-.001"          | 1.3   | 10.25 | 6.03 |
| 61 R 321  | 89-T   | Z    | S-.001", S-.003" | 1.3   | 4.95  | 3.03 |
| 61 R 322  | 89TB*  | Z&Y  | S-.001", S-.003" | 1.3   | 5.95  | 3.50 |
| 61 R 323  | 89TX   | Z    | D-.001", S-.003" | 1.3   | 10.95 | 6.44 |
| 61 R 324  | 89TBX* | Z&Y  | D-.001", S-.003" | 1.3   | 11.95 | 7.03 |
| 68 R 775  | 91T    | X    | S-.001", S-.003" | 1.0   | 3.95  | 2.32 |
| 68 R 776  | 91TX   | X    | D-.001", S-.003" | 1.0   | 9.95  | 5.85 |
| 68 R 777  | 93T    | X    | S-.001", S-.003" | 1.0   | 3.95  | 2.32 |
| 68 R 778  | 93TX   | Z    | D-.001", S-.003" | 1.0   | 9.95  | 5.85 |



# Stereo & Monophonic Replacement Cartridges

**SONOTONE**



## MONOPHONIC CARTRIDGES

ceramic construction provides protection against effects of heat and moisture; prevents hum pickup—require no preamp or equalization. High compliance for precision tracking. Types with suffix "D" in type number have diamond styli; "S" have sapphire styli; "SD" are dual styli types with one sapphire and one diamond stylus. volt output, except \*0.5 volt. For 1/2" to 3/4" mtg. centers, except less bracket for narrow pickup arms. Av. shpg. wt., 3 oz.

### SERIES 2T TURNOVER CARTRIDGES

| Stock No. | Type     | Styli            | List  | NET  |
|-----------|----------|------------------|-------|------|
| 55 RC 533 | 2T-S     | S-.001", S-.003" | 8.50  | 5.00 |
| 55 RC 844 | 2T-SD    | D-.001", S-.003" | 14.50 | 8.53 |
| 55 RC 528 | 2T-LB-S† | S-.001", S-.003" | 8.50  | 5.00 |

### SERIES 3T WIDE-RANGE CARTRIDGES

| Stock No. | Type   | Styli            | List  | NET  |
|-----------|--------|------------------|-------|------|
| 55 RC 857 | 3P-1S* | S-.001"          | 10.50 | 6.17 |
| 55 RC 928 | 3P-1D* | D-.001"          | 14.50 | 8.53 |
| 55 RC 929 | 3T-S*  | S-.001", S-.003" | 12.50 | 7.35 |
| 55 RC 948 | 3T-SD* | D-.001", S-.003" | 15.00 | 8.82 |

## REPLACEMENT NEEDLES

Indicates replacements for stereo cartridges, at right. Wt., 2 oz.

| Stock No. | Type     | Tip               | For         | List  | NET  |
|-----------|----------|-------------------|-------------|-------|------|
| 55 RC 319 | NIP-1S   | S-.001"           | Series 1P   | 2.50  | 1.47 |
| 55 RC 534 | N2T-S    | S-.001", S-.003"  | Series 2T   | 3.50  | 2.06 |
| 55 RC 529 | N2T-SD   | D-.001", S-.003"  | Series 2T   | 11.50 | 6.76 |
| 55 RC 318 | N3T-S    | S-.001", S-.003"  | Series 3    | 3.50  | 2.06 |
| 55 RC 315 | N3T-SD   | D-.001", S-.003"  | Series 3    | 11.50 | 6.90 |
| 55 RC 237 | N8TA-SD* | D-.0007", S-.003" | Series 8TA4 | 11.50 | 6.76 |
| 55 RC 623 | N9T-S*   | S-.0007", S-.003" | Series 9T   | 4.00  | 2.35 |
| 55 RC 624 | N9T-SD*  | D-.0007", S-.003" | Series 9T   | 12.50 | 7.35 |
| 55 RC 625 | N16T-S*  | S-.0007", S-.003" | Series 16T  | 3.50  | 2.06 |
| 55 RC 626 | N16T-SD* | D-.0007", S-.003" | Series 16T  | 11.00 | 6.47 |
| 55 RC 627 | N18T-S*  | S-.0007", S-.003" | Series 18T  | 3.50  | 2.06 |
| 55 RC 628 | N18T-SD* | D-.0007", S-.003" | Series 18T  | 11.00 | 6.47 |

## SONOTONE SERIES T1 PICKUP ARM WITH SERIES 12T STEREO CARTRIDGE

quality plastic pickup arm with crystal cartridge installed. Cartridge has .0007" and .003" sapphire styli. Shpg. wt., 4 oz.

| Stock No. | Type       | Description                | List | NET  |
|-----------|------------|----------------------------|------|------|
| 55 RC 631 | T81-12THAS | Gray plastic; high output  | 7.45 | 4.38 |
| 55 RC 632 | T81-12TLAS | Gray plastic; low output   | 7.45 | 4.38 |
| 55 RC 633 | T11-12THAS | Brown plastic; high output | 7.45 | 4.38 |
| 55 RC 634 | T11-12TLAS | Brown plastic; low output  | 7.45 | 4.38 |

## E-V Replacement Cartridges

SERIES 20 STEREOGRAPHIC CARTRIDGES. Feature low distortion, high channel separation. "S" indicates sapphire; "D"—diamond. 7/8" to 1" mtg. centers. \*Turnover type styli. Av. wt., 3 oz.

| Stock No. | Type    | Fig. | Styli        | Output | List  | NET   |
|-----------|---------|------|--------------|--------|-------|-------|
| 55 RC 784 | 21S     | B    | .0007S       | 500 mv | 9.50  | 5.59  |
| 55 RC 867 | 21D     | B    | .0007D       | 500 mv | 15.00 | 8.82  |
| 55 RC 783 | 21MS    | A    | .0007S       | 20 mv  | 12.50 | 7.35  |
| 55 RC 794 | 21MD    | A    | .0007D       | 20 mv  | 18.00 | 10.58 |
| 55 RC 782 | 26ST†   | B    | .0007S/.003S | 500 mv | 10.50 | 6.17  |
| 55 RC 799 | 26DST†  | B    | .0007D/.003S | 500 mv | 16.50 | 9.70  |
| 55 RC 781 | 26MST†  | A    | .0007S/.003S | 20 mv  | 13.50 | 7.94  |
| 55 RC 745 | 26MDST† | A    | .0007D/.003S | 20 mv  | 19.50 | 11.57 |

SERIES 60 STEREO "POWER POINT" CARTRIDGES. Provide wide range with low distortion. "S" indicates sapphire tip; "D"—diamond. Tracking force: 2-8 grams. Require holding mechanism listed below, at right. Shpg. wt., 4 oz.

| Stock No. | Type | Styli         | Fits  | List  | NET  |
|-----------|------|---------------|-------|-------|------|
| 55 RC 727 | 61   | .0007S/.0007S | PFT-3 | 5.95  | 3.50 |
| 55 RC 728 | 61DS | .0007D/.0007S | PFT-3 | 12.95 | 7.61 |
| 55 RC 729 | 66   | .0007S/.003S  | PT-3  | 5.95  | 3.50 |
| 55 RC 730 | 66DS | .0007D/.003S  | PT-3  | 12.95 | 7.61 |

SERIES 100 STEREO "POWER POINT" CARTRIDGES. Five-contact type utilizing high capacity elements for improved bass response. Feature high compliance and low tracking force. "S" indicates sapphire; "D"—diamond. Av. wt., 3 1/2 oz.

| Stock No. | Type  | Styli         | Fits | List  | NET  |
|-----------|-------|---------------|------|-------|------|
| 55 RC 670 | 101   | .0007S/.0007S | PT-4 | 5.95  | 3.57 |
| 55 RC 671 | 101DS | .0007D/.0007S | PT-4 | 12.95 | 7.77 |
| 55 RC 672 | 106   | .0007S/.003S  | PT-5 | 5.95  | 3.57 |
| 55 RC 673 | 106DS | .0007D/.003S  | PT-5 | 12.95 | 7.77 |

## STEREOPHONIC CARTRIDGES

High-quality ceramic stereo turnover cartridges. Ideal for replacement use and for converting monophonic phonos to stereo operation. Feature low distortion, excellent response, high channel separation, and high vertical and lateral compliance. Have standard 1/2" and 3/4" mtg. centers. Series "8TA4" also mount on 7/8" centers. Av. shpg. wt., 4 oz.

### SERIES 8TA4 TURNOVER CARTRIDGES. 0.3 volt output.

| Stock No. | Type      | Styli                          | List  | NET   |
|-----------|-----------|--------------------------------|-------|-------|
| 55 RC 764 | 8TA4-S    | .0007" and .003" sapphires     | 14.50 | 8.54  |
| 55 RC 795 | 8TA4-S-77 | Two .0007" sapphires           | 14.50 | 8.54  |
| 55 RC 211 | 8TA4-SD   | .0007" diamond; .003" sapphire | 17.50 | 10.29 |

### SERIES 9T SUPER CARTRIDGE. 0.35 volt output.

| Stock No. | Type  | Styli                          | List  | NET   |
|-----------|-------|--------------------------------|-------|-------|
| 55 RC 663 | 9T-S  | .0007" and .003" sapphires     | 16.50 | 9.70  |
| 55 RC 664 | 9T-SD | .0007" diamond; .003" sapphire | 19.50 | 11.47 |

### SERIES 10T PLUG-IN CARTRIDGES. 0.5 volt output.

| Stock No. | Type     | Styli                           | List  | NET  |
|-----------|----------|---------------------------------|-------|------|
| 55 RC 356 | 10T-2S   | .0007" and .003" sapphires      | 6.45  | 3.79 |
| 55 RC 358 | 10T-2SD  | .0007" diamond; .003" sapphire  | 13.45 | 7.91 |
| 55 RC 357 | 10T-2S7  | Two .0007" sapphires            | 6.45  | 3.79 |
| 55 RC 359 | 10T-2S77 | .0007" diamond; .0007" sapphire | 13.45 | 7.91 |

### SERIES 12T CRYSTAL CARTRIDGE. \*2.5 v. output; †1 v. output.

| Stock No. | Type       | Styli                      | List | NET  |
|-----------|------------|----------------------------|------|------|
| 55 RC 666 | 12THA-S*   | .0007" and .003" sapphires | 6.45 | 3.79 |
| 55 RC 667 | 12THA-S77* | Two .0007" sapphires       | 6.45 | 3.79 |
| 55 RC 668 | 12TLA-S†   | .0007" and .003" sapphires | 6.45 | 3.79 |
| 55 RC 669 | 12TLA-S77† | Two .0007" sapphires       | 6.45 | 3.79 |

### SERIES 16T AND 18T CARTRIDGES. \*0.5 v. output; †0.7 v. output.

| Stock No. | Type     | Styli                          | List  | NET  |
|-----------|----------|--------------------------------|-------|------|
| 55 RC 629 | 16T-S*   | .0007" and .003" sapphires     | 12.50 | 7.35 |
| 55 RC 648 | 16T-SD*  | .0007" diamond; .003" sapphire | 15.50 | 9.11 |
| 55 RC 649 | 16T-S77* | Two .0007" sapphires           | 12.50 | 7.35 |
| 55 RC 674 | 18T-S†   | .0007" and .003" sapphires     | 12.50 | 7.35 |
| 55 RC 675 | 18T-SD†  | .0007" diamond; .003" sapphire | 15.50 | 9.11 |
| 55 RC 676 | 18T-S77† | Two .0007" sapphires           | 12.50 | 7.35 |



C SERIES 50 "POWER POINT" CARTRIDGES. Ceramic monophonic. Require holder, below. "S"—sapphire; "D"—diamond. 3 oz.

| Stock No. | Type | Code   | Styli            | List | NET  |
|-----------|------|--------|------------------|------|------|
| 55 RC 518 | 51-1 | Red    | (2) S-.001"      | 3.95 | 2.32 |
| 55 RC 509 | 56   | Blue   | S-.001", S-.003" | 3.95 | 2.32 |
| 55 RC 464 | 56DS | Orange | D-.001", S-.003" | 9.95 | 5.85 |

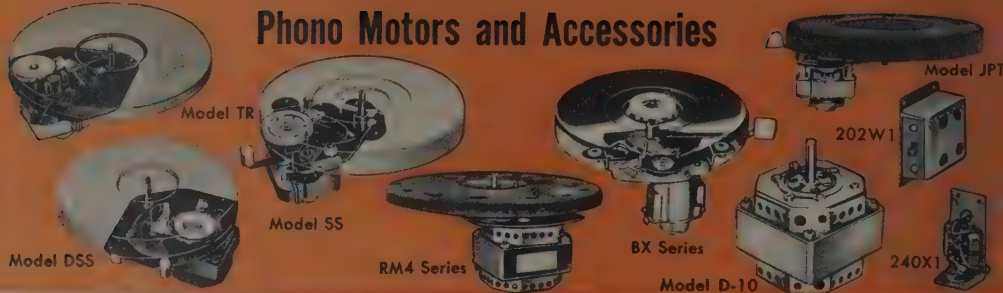
D SERIES 76 "POWER POINT" CARTRIDGES. Monophonic. For Webcor phonos. "S"—sapphire; "D"—diamond. 3 oz.

| Stock No. | Type | Code  | Styli            | List | NET  |
|-----------|------|-------|------------------|------|------|
| 55 RC 598 | 76S  | White | S-.001", S-.003" | 3.95 | 2.32 |
| 55 RC 599 | 76DS | Pink  | D-.001", S-.003" | 9.95 | 5.85 |

E HOLDING MECHANISM. Accommodate "Power Point" cartridges. Have 1/8", 1/2" and 3/4" mtg. hole centers. 1/2 oz.

| Stock No. | Type  | For Models       | List | NET |
|-----------|-------|------------------|------|-----|
| 55 RC 697 | PFT-1 | 51-1, 52-2, 53-3 | 1.00 | .59 |
| 55 RC 698 | PT-2  | 56, 56DS         | 1.00 | .59 |
| 55 RC 731 | PT-3  | 66, 66DS         | 1.00 | .59 |
| 55 RC 732 | PT-3  | 61, 61DS         | 1.00 | .59 |
| 55 RC 635 | PT-4  | 101, 101DS       | 1.00 | .59 |
| 55 RC 677 | PT-5  | 106, 106DS       | 1.00 | .59 |

# Phono Motors and Accessories



**GENERAL INDUSTRIES MODEL TR.** 3-speed phono motor with 9" turntable. Has constant-speed, 2-pole motor. Speeds of 33 $\frac{1}{3}$ , 45 and 78 rpm from separate pulleys, which disengage from motor in "off" position. Includes speed indicator, 45-rpm record adapter. 3 $\frac{1}{2}$ x5 $\frac{1}{2}$ x5 $\frac{3}{4}$ ". Requires 17 $\frac{1}{2}$ " below mtg. plate. For 110-120 v., 60 cycle AC. Shpg. wt., 4 lbs.

96 R 367, List, \$12.45, NET.....7.47

**GENERAL INDUSTRIES MODEL DSS.** 3-speed phono motor with 10" turntable—features a 4-pole, shaded-pole motor, oilless bearings, and a dynamically balanced rotor. Plays 33 $\frac{1}{3}$ , 45 and 78-rpm records. With 45-rpm record adapter and "On-Off" switch. 4 $\frac{1}{2}$ x6 $\frac{1}{2}$ x6 $\frac{1}{2}$ ". Requires 2 $\frac{1}{2}$ " below mtg. plate. For 110-120 volts, 60 cycle AC. Shpg. wt., 6 $\frac{1}{2}$  lbs.

85 R 275, List, \$25.75, NET.....15.45

**GENERAL INDUSTRIES MODEL SS.** Low-cost phono motor with 8" turntable. Induction-type, 2-pole motor features oilless bearings and balanced rotor. 3 $\frac{1}{2}$ , 45 and 78 rpm. With speed indicator dial, 45 rpm adapter. 3 $\frac{1}{2}$ x4 $\frac{1}{2}$ x4 $\frac{1}{2}$ ". For 110-120 v., 60 cycle AC. Shpg. wt., 4 lbs.

85 R 276, List, \$10.95, NET.....6.57

85 R 277, SS-4. As above, but has 4th speed (16 $\frac{2}{3}$  rpm). List, \$11.75, NET.....7.05

**GENERAL INDUSTRIES SERIES BX BATTERY-OPERATED PHONO MOTORS.** Dependable phono motors that operate on four flashlight cells (listed below). 2-pole enclosed motor has self-lubricating bearings. Model BX has neutral "off"—shift lever can be placed on either side of the turntable. 6 $\frac{1}{2}$ x4 $\frac{1}{2}$ x2 $\frac{3}{4}$ ". Require 2" space below mtg. surface. Shpg. wt., 1 lb.

MODEL BX. For 45, 33 $\frac{1}{3}$ , 16 $\frac{2}{3}$  rpm.

85 R 203, NET.....10.20

NEW MODEL BXX. For 78, 45, 33 $\frac{1}{3}$  rpm.

85 R 206, NET.....10.65

MODEL BX-45. For 45 rpm only.

85 R 204, NET.....8.85

**TYPE 2 BURGESS BATTERY.** For use with all Series BX phono motors, above. Four required per model. Shpg. wt., 6 oz.

53 J 009, NET EACH.....14 c

**NEW GENERAL INDUSTRIES RM4 SERIES.** Single-speed phono motors with 10" turntable. Heavy-duty, rim-drive 4-pole motor—rubber-insulated from mounting plate for exceptionally quiet operation. 3 $\frac{3}{4}$ x3 $\frac{3}{4}$ x3". Require 2 $\frac{1}{2}$ " below mtg. plate. For 110-120 v., 60 cycle AC. Shpg. wt., 9 lbs.

| Stock No. | Model No. | Speed                | NET EA. |
|-----------|-----------|----------------------|---------|
| 85 R 207  | RM4       | 78 rpm               | 15.90   |
| 85 R 208  | RM4-45    | 45 rpm               |         |
| 85 R 209  | RM4-3     | 33 $\frac{1}{3}$ rpm |         |

**NEW GENERAL INDUSTRIES D-10 RECORDING MOTOR.** Heavy-duty 4-pole, shaded-pole induction type. For use in practically any tape, wire or disc recorder being made. No air intake; dual cooling fans; etc. Clockwise or counter-clockwise rotation. 1/70 HP free speed, 1740 rpm. Max. running torque 11 oz./in. 5 $\frac{1}{4}$ " dia. shaft. 3 $\frac{3}{4}$ x3 $\frac{3}{4}$ "x3" below mtg. plate. For 110-120 v., 60 cycle AC. Shpg. wt., 3 lbs.

85 R 213, List, \$15.00, NET.....9.00

**ALLIANCE JPT8.** 3-speed phono motor with 8" turntable. Constant speed, rubber shock mounted 2-pole motor. Plays 33 $\frac{1}{3}$ , 45 and 78-rpm records. With 45-rpm record adapter. Mounts in 4 $\frac{1}{2}$ x5 $\frac{1}{2}$ " cutout. Requires 2 $\frac{1}{2}$ " below base plate. For 110-120 v., 60 cycle AC. Shpg. wt., 3 $\frac{1}{2}$  lbs.

85 R 440, List, \$10.95, NET.....6.40

MODEL JPQ8. As above, but all 4 speeds.

85 R 442, List, \$13.50, NET.....7.90

**RCA 202W1 PHONO SWITCH.** For use in either of two record players or changer with one radio or amplifier. Slide switch. With plugs. Shpg. wt., 6 oz.

69 R 506, List, \$5.65, NET.....2.50

**RCA 240X1 PHONO SWITCH.** For operation of record players through radios that do not have a phono input. With plug, cable and instructions. Shpg. wt., 6 oz.

69 R 505, List, \$3.35, NET.....1.90

## Selected Walsco Phonograph and Tape Recorder Replacement Parts

| Stock No. | Type No. & Descrip.                  | Replaces Mfr's Part Number:                                                                                                                                                                      | NET     |
|-----------|--------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| 56 R 815  | 1414 Belt (Small)                    | Admiral 406A20, 98C15-105; G.E. RMW-003, VM 2797; Silvertone K-2797                                                                                                                              | .18 pr. |
| 56 R 816  | 1415 Belt (Large)                    | Admiral 98C15-107, Garrard A40581; G.E. RMW-004; Philco 45-6479, 54-7959                                                                                                                         | .17 pr. |
| 56 R 820  | 1432 Idler Wheel                     | Admiral G40A059, G40A0279; Columbia Series 360; G.E. RMW-043, RMW-060; Motorola 2772, 49R484327, 49R484328; Philco 456481; RCA 71411, 75382; 76750; Silvertone K-2772, R-46350, R-49655; VM 2772 | .65     |
| 56 R 821  | 1433 Idler Wheel                     | Columbia 901, 204, 208; G.E. RMW-.057, RCA 74911; VM 2635                                                                                                                                        | .72     |
| 56 R 822  | 1434 Idler Wheel                     | Admiral G40A057; Motorola 3481, 49R484329; Philco 76-2374; RCA 78508; Silvertone K-3481, R-49662; VM 3481                                                                                        | .78     |
| 56 R 823  | 1435 Idler Wheel                     | Philco 76-5267; Zenith 61-125                                                                                                                                                                    | .79     |
| 56 R 824  | 1437 Idler Wheel (78)                | G.E. RMW-053; Motorola 49R680436; Philco 35-2398; Webcor 11X003, 11X522                                                                                                                          | 1.14    |
| 56 R 825  | 1438 Idler Wheel (33 $\frac{1}{3}$ ) | Columbia 154, Series 360; G.E. RMW-.056; Motorola 49R680437; Webcor 11X368, 11X935                                                                                                               | 1.14    |
| 56 R 831  | 1447 Idler Wheel                     | RCA 74077                                                                                                                                                                                        | .81     |
| 56 R 833  | 1449 Idler Wheel                     | Collaro 3199 (54-36), 3199 (56-41)                                                                                                                                                               | 1.79    |
| 56 R 834  | 1452 Idler Wheel                     | Silvertone K-5002; VM 5002                                                                                                                                                                       | .69     |
| 56 R 835  | 1479 Idler Wheel                     | Garrard 5883                                                                                                                                                                                     | 1.88    |
| 56 R 861  | 1487 Idler Wheel                     | Silvertone K-3352                                                                                                                                                                                | .91     |
| 56 R 862  | 1490-01 Idler Wheel                  | Admiral 98B 15-47, 98B 15-73; RCA 12G934; Silvertone 39050-0                                                                                                                                     | .72     |
| 56 R 829  | 1445 Idler Wheel                     | Garrard 50441, B-52856                                                                                                                                                                           | 1.88    |
| 56 R 829  | 1444 Idler Wheel                     | Garrard 46524                                                                                                                                                                                    | 1.89    |
| 56 R 835  | 1453 Idler Pulley                    | Motorola 49R635330; VM 7435                                                                                                                                                                      | 1.95    |
| 56 R 842  | 1462 Pulley (33 $\frac{1}{3}$ )      | G.E. RMW-061; Motorola 3141; RCA 76748; Silvertone K-3141; VM 3141, 3354                                                                                                                         | .84     |
| 56 R 841  | 1461 Pulley (45)                     | G.E. RMW-062; Motorola 3140; RCA 76747; Silvertone K-3140; VM 3140, 3356                                                                                                                         | .84     |
| 56 R 840  | 1460 Pulley (78)                     | G.E. RMW-063; Motorola 3139; RCA 76746; Silvertone K-3139; VM 3139, 3357                                                                                                                         | .84     |
| 56 R 843  | 1463 Drive Wheel (78)                | G.E. RMW-073; Webcor 11X460                                                                                                                                                                      | 1.63    |
| 56 R 844  | 1464 Drive Wheel (45)                | G.E. RMW-072; Webcor 11X458                                                                                                                                                                      | 1.63    |
| 56 R 845  | 1465 Drive Wheel (33 $\frac{1}{3}$ ) | G.E. RMW-071; Webcor 11X456                                                                                                                                                                      | 1.63    |
| 56 R 846  | 1466 Pulley (78)                     | Motorola 3484, RCA 78527; VM 3484                                                                                                                                                                | 1.01    |
| 56 R 847  | 1467 Pulley (45)                     | Motorola 3483, RCA 78526; VM 3483                                                                                                                                                                | 1.01    |
| 56 R 848  | 1468 Pulley (33 $\frac{1}{3}$ )      | Motorola 3482, RCA 78525; VM 3482                                                                                                                                                                | 1.01    |
| 56 R 868  | 1495-01 Pulley (33 $\frac{1}{3}$ )   | RCA 102941                                                                                                                                                                                       | .94     |
| 56 R 863  | 1490-03 Idler Wheel                  | Adm. 98C15-105, 98B15-57; RCA 105419                                                                                                                                                             | .88     |
| 56 R 832  | 1448 Idler Wheel                     | Collaro 2798 (157)                                                                                                                                                                               | 1.79    |

| Stock No. | Type No. & Descrip.             | Replaces Mfr's Part Number:                         | NET  |
|-----------|---------------------------------|-----------------------------------------------------|------|
| 56 R 856  | 1491 Cycle Dr. Wheel            | Collaro 3689 (54-41), 3689 (56-47)                  | 1.79 |
| 56 R 856  | 1480-01 Cycle Dr. Whl.          | Collaro 58-41                                       | 2.27 |
| 56 R 858  | 1482 Pressure Roller            | Webcor 11X1151                                      | 1.21 |
| 56 R 866  | 1492-02 Drive Wheel             | Webcor 11X1171                                      | 1.79 |
| 56 R 867  | 1492-03 Idler Pulley            | Monarch 8M324 (All 4-speed models); Symphonic 8M32A | .84  |
| 56 R 865  | 1492-01 Idler Wheel             | Phico 35-8053-3; Symphonic 11X1607; Webcor 11X1607  | 1.79 |
| 56 R 818  | 1424 Tire                       | RCA 7198, 76198                                     | .36  |
| 56 R 850  | 1480-01 Pulley (45)             | RCA 78755; VM 5374                                  | .81  |
| 56 R 851  | 1472 Pulley (33 $\frac{1}{3}$ ) | RCA 78756; VM 5373                                  | .81  |
| 56 R 849  | 1470 Pulley (78)                | RCA 78757; VM 5375                                  | .94  |
| 56 R 828  | 1441 Idler Wheel                | Webcor 11X683, 11X754                               | 1.79 |
| 56 R 827  | 1440 Idler Wheel                | Webcor 11X1201                                      | 1.14 |
| 56 R 826  | 1439 Idler Wheel                | Webcor 11X1192                                      | 1.01 |
| 56 R 817  | 1416 Belt                       | Zenith 32-29                                        | 1.20 |
| 56 R 819  | 1430 Idler Wheel                | Zenith S11118                                       | 1.01 |
| 56 R 839  | 1459 Idler Wheel                | Zenith S16821                                       | 2.25 |
| 56 R 852  | 1473 Drive Wheel                | Zenith S16922, S21754                               | 3.27 |
| 56 R 869  | 1499-01 Motor                   | G.I. 14536, 24626-1; RCA 76751, 103948; VM 6631     | .47  |
| 56 R 870  | 1499-02 Motor                   | Mtg. Grommets                                       | .59  |

### TAPE RECORDER DRIVE BELTS

| Stock No. | Type No. | Inside Circumf.    | Thickness | Used on These Tape Recorders:                 | NET  |
|-----------|----------|--------------------|-----------|-----------------------------------------------|------|
| 56 R 800  | 1409-04  | 12 $\frac{1}{2}$ " | .312"     | Most Symphonic and VM units                   | 2.04 |
| 56 R 801  | 1410-06  | 6 $\frac{1}{2}$ "  | .139"     | VM 700, 701, 710, 711, 714                    | .39  |
| 56 R 802  | 1410-07  | 7 $\frac{1}{4}$ "  | .139"     | RCA SRT 301, 401, 403, 403;                   |      |
| 56 R 803  | 1410-08  | 8 $\frac{1}{2}$ "  | .139"     | Wicox-Gay 3A10, 3A11                          | .45  |
| 56 R 804  | 1410-10  | 10 $\frac{1}{2}$ " | .139"     | Pentron and Crestwood units                   | .45  |
| 56 R 805  | 1410-12  | 12 $\frac{1}{2}$ " | .093"     | Crescent and others                           | .52  |
| 56 R 806  | 1410-14  | 14 $\frac{1}{2}$ " | .139"     | Ampro and most Revere units                   | .52  |
| 56 R 807  | 1410-15  | 15 $\frac{1}{2}$ " | .139"     | Most Revere recorders                         | .98  |
| 56 R 808  | 1410-18  | 18 $\frac{1}{2}$ " | .139"     | Webcor recorders                              | 1.30 |
| 56 R 809  | 1410-20  | 20 $\frac{1}{4}$ " | .139"     | Ampro recorders                               | 1.63 |
| 56 R 810  | 1410-21  | 21 $\frac{1}{2}$ " | .139"     | Ampro; General Industries; Webcor; and others | 1.63 |
| 56 R 811  | 1410-50  | 10.75"             | .085"     | Webcor and Revere units                       | .57  |
| 56 R 812  | 1410-51  | 11.3"              | .083"     | Viking recorders                              | 1.08 |
| 56 R 813  | 1410-52  | 11.8"              | .139"     | Replaces belts on Webcor                      |      |
| 56 R 814  | 1410-53  | 14.3"              | .139"     | 11 and 1736 units                             | .84  |
| 56 R 853  | 1474     | 9.8"               | .139"     | Revere recorders                              | .45  |
|           |          |                    |           | Crestwood recorders                           | .55  |



# RCA Quality Receiving Tubes

**RCA RADIOTRONS—THE GREAT NAME IN ELECTRONIC TUBES**

**Finest Premium-Quality Tubes—All Types in Stock**

**May Be Assorted for Quantity-Price Savings**

**Always Freshest Stocks—Full 1-Year Guarantee**

**Buy Your Tubes on Allied's Credit Fund Plan**

You can be sure of complete satisfaction when you order tubes from us. We will replace any tube that does not give efficient performance for 12 months from date of purchase. This does not apply to burned-out or broken tubes. \*Not made by RCA—other well-known brands supplied. *Purchasers of tubes in lots of 15 or more may obtain RCA's Receiving Tube Manual at no extra cost—ask for Catalog No. 37 K 575. Av. shpg. wt. per tube, 4 oz.; per 10, 2½ lbs.*



**ACT NOW!**

Take advantage of our new, convenient Credit Fund Plan—purchase all of the receiving tubes you need from Allied on Easy Time Payments. Take up to 24 months to pay... *no money down!* Minimum order, \$20.

| Tube Type  | List Price | NET EACH In Quantities of: |         |            | Tube Type | List Price | NET EACH In Quantities of: |         |            |
|------------|------------|----------------------------|---------|------------|-----------|------------|----------------------------|---------|------------|
|            |            | 1 to 5                     | 6 to 49 | 50 or More |           |            | 1 to 5                     | 6 to 49 | 50 or More |
| 184/6FG6   | \$3.25     | 1.72                       | 1.59    | 1.43       | 3DT6A     | \$2.20     | 1.17                       | 1.08    | .97        |
| 184        | 2.40       | 1.27                       | 1.18    | 1.06       | 3EA5      | 2.85       | 1.51                       | 1.40    | 1.26       |
| 4A         | 2.15       | 1.14                       | 1.04    | .94        | 3ER5*     | 1.25       | 1.25                       | 1.47    | 1.32       |
| 4G         | 2.60       | 1.38                       | 1.27    | 1.14       | 3FH5*     | 2.60       | 1.38                       | 1.27    | 1.14       |
| 3          | 3.40       | 1.80                       | 1.66    | 1.49       | 3LF4      | 4.40       | 2.33                       | 2.16    | 1.94       |
| 5GT        | 3.50       | 1.84                       | 1.72    | 1.55       | 3Q4       | 2.90       | 1.54                       | 1.43    | 1.29       |
| 7GT        | 3.70       | 1.96                       | 1.81    | 1.63       | 3Q5GT     | 3.60       | 1.91                       | 1.76    | 1.58       |
| X2         | 3.05       | 1.62                       | 1.49    | 1.34       | 3S4       | 2.65       | 1.40                       | 1.30    | 1.17       |
| 3GT        | 2.90       | 1.54                       | 1.43    | 1.29       | 3V4       | 2.50       | 1.33                       | 1.23    | 1.11       |
| 5GT        | 3.65       | 1.93                       | 1.79    | 1.61       | 4AU6      | 2.15       | 1.14                       | 1.05    | .94        |
| N6         | 2.20       | 1.17                       | 1.08    | .97        | 4AV6      | 1.70       | .90                        | .83     | .75        |
| 3GT/1B3GT  | 2.90       | 1.54                       | 1.43    | 1.29       | 4BC5      | 2.35       | 1.25                       | 1.15    | 1.03       |
| 5GT        | 3.05       | 1.62                       | 1.49    | 1.34       | 4BC8      | 4.05       | 2.15                       | 1.98    | 1.78       |
| 1          | 2.90       | 1.54                       | 1.43    | 1.29       | 4BN6      | 3.05       | 1.62                       | 1.49    | 1.34       |
| 3          | 2.90       | 1.54                       | 1.43    | 1.29       | 4BQ7A     | 4.00       | 2.12                       | 1.96    | 1.76       |
| 5          | 3.50       | 1.86                       | 1.72    | 1.55       | 4BS8      | 3.85       | 2.04                       | 1.89    | 1.70       |
| A6         | 4.20       | 2.23                       | 2.06    | 1.85       | 4BU8      | 2.85       | 1.51                       | 1.40    | 1.26       |
| B4         | 4.60       | 2.44                       | 2.25    | 2.03       | 4BX8*     | 3.45       | 1.83                       | 1.69    | 1.52       |
| C6         | 4.35       | 2.31                       | 2.13    | 1.92       | 4BZ6      | 2.25       | 1.19                       | 1.10    | .99        |
| D5         | 4.40       | 2.33                       | 2.16    | 1.94       | 4BZ7      | 4.05       | 2.15                       | 1.98    | 1.78       |
| E3         | 4.40       | 2.33                       | 2.16    | 1.94       | 4CB6      | 2.30       | 1.22                       | 1.13    | 1.02       |
| 3S5        | 4.20       | 2.23                       | 2.06    | 1.85       | 4CS6      | 2.35       | 1.25                       | 1.15    | 1.03       |
| H4         | 4.05       | 2.15                       | 1.98    | 1.78       | 4CY5      | 2.85       | 1.51                       | 1.40    | 1.26       |
| H6         | 4.20       | 2.23                       | 2.06    | 1.85       | 4DE6      | 2.65       | 1.40                       | 1.30    | 1.17       |
| 2A         | 3.20       | 1.70                       | 1.57    | 1.41       | 4DT6A     | 2.25       | 1.19                       | 1.10    | .99        |
| 5GT        | 3.85       | 2.04                       | 1.89    | 1.70       | 4ES8      | 4.60       | 2.44                       | 2.25    | 2.03       |
| 5          | 2.70       | 1.43                       | 1.32    | 1.21       | 4EW6      | 2.35       | 1.25                       | 1.15    | 1.03       |
| 2A*        | 3.10       | 1.73                       | 1.52    | 1.37       | 4GS8/4BU8 | 2.85       | 1.51                       | 1.40    | 1.26       |
| 4          | 3.85       | 2.04                       | 1.89    | 1.70       | 5AM8      | 3.30       | 1.75                       | 1.62    | 1.46       |
| 5          | 2.65       | 1.40                       | 1.30    | 1.17       | 5AN8      | 3.60       | 1.91                       | 1.76    | 1.58       |
| 4          | 2.50       | 1.33                       | 1.23    | 1.11       | 5AQ5      | 2.20       | 1.17                       | 1.08    | .97        |
| 4          | 2.50       | 1.33                       | 1.23    | 1.11       | 5AS4A     | 2.65       | 1.40                       | 1.30    | 1.17       |
| 4          | 2.20       | 1.17                       | 1.08    | .97        | 5AS8      | 3.50       | 1.86                       | 1.72    | 1.55       |
| 2          | 4.05       | 2.15                       | 1.98    | 1.78       | 5AT8      | 3.25       | 1.72                       | 1.59    | 1.43       |
| 2          | 2.10       | 1.11                       | 1.03    | .93        | 5AU4      | 3.40       | 1.80                       | 1.66    | 1.49       |
| 2A         | 3.20       | 1.70                       | 1.57    | 1.41       | 5AV8      | 4.05       | 2.15                       | 1.98    | 1.78       |
| 2B         | 3.20       | 1.70                       | 1.57    | 1.41       | 5AW4      | 2.80       | 1.48                       | 1.37    | 1.23       |
| 3          | 6.95       | 3.68                       | 3.41    | 3.06       | 5AZ4      | 3.25       | 1.72                       | 1.59    | 1.43       |
| 4F4A       | 4.05       | 2.15                       | 1.98    | 1.78       | 5B8       | 4.15       | 2.20                       | 2.03    | 1.83       |
| 4          | 2.55       | 1.35                       | 1.25    | 1.12       | 5BE8      | 3.30       | 1.75                       | 1.62    | 1.46       |
| W4 Nuistor | 4.45       | 2.36                       | 2.18    | 1.96       | 5BK7A     | 3.40       | 1.80                       | 1.66    | 1.49       |
| Y5         | 2.85       | 1.51                       | 1.40    | 1.26       | 5BQ7A     | 4.05       | 2.15                       | 1.98    | 1.78       |
| N5         | 2.10       | 1.11                       | 1.03    | .93        | 5BR8      | 3.30       | 1.75                       | 1.62    | 1.46       |
| R5         | 2.75       | 1.46                       | 1.35    | 1.21       | 5BT8      | 3.30       | 1.75                       | 1.62    | 1.46       |
| H5         | 2.55       | 1.35                       | 1.25    | 1.12       | 5BW8      | 3.40       | 1.80                       | 1.66    | 1.49       |
| 2          | 3.70       | 1.96                       | 1.81    | 1.63       | 5CG8      | 3.25       | 1.72                       | 1.59    | 1.43       |
| 3          | 3.40       | 1.80                       | 1.66    | 1.49       | 5CL6A     | 3.15       | 1.67                       | 1.54    | 1.39       |
| 4F4A       | 4.05       | 2.15                       | 1.98    | 1.78       | 5CM8      | 3.55       | 1.88                       | 1.74    | 1.57       |
| L5         | 1.85       | .98                        | .91     | .82        | 5CQ8      | 3.35       | 1.78                       | 1.64    | 1.48       |
| U6         | 2.15       | 1.14                       | 1.05    | .94        | 5CZ5      | 3.05       | 1.62                       | 1.49    | 1.34       |
| V6         | 1.75       | .93                        | .86     | .77        | 5DH8      | 4.05       | 2.15                       | 1.98    | 1.78       |
| 2          | 6.60       | 3.50                       | 3.23    | 2.91       | 5DJ4      | 2.20       | 1.17                       | 1.08    | .97        |
| A6         | 2.15       | 1.14                       | 1.05    | .94        | 5E8       | 3.15       | 1.67                       | 1.54    | 1.39       |
| C5         | 2.35       | 1.25                       | 1.15    | 1.03       | 5EU8      | 3.15       | 1.67                       | 1.54    | 1.39       |
| E6         | 2.25       | 1.19                       | 1.10    | .99        | 5EW6      | 2.35       | 1.25                       | 1.15    | 1.03       |
| N4A        | 2.55       | 1.35                       | 1.25    | 1.12       | 5FV8      | 3.15       | 1.67                       | 1.54    | 1.39       |
| N6         | 3.05       | 1.62                       | 1.49    | 1.34       | 5GH8      | 3.20       | 1.70                       | 1.57    | 1.41       |
| U8         | 2.85       | 1.51                       | 1.40    | 1.26       | 5GM6      | 2.40       | 1.27                       | 1.18    | 1.06       |
| Y6         | 2.35       | 1.25                       | 1.15    | 1.03       | 5J6       | 2.85       | 1.51                       | 1.40    | 1.26       |
| Z6         | 2.35       | 1.25                       | 1.15    | 1.03       | 5T4       | 8.70       | 4.61                       | 4.26    | 3.83       |
| B6         | 2.30       | 1.22                       | 1.13    | 1.02       | 5T8       | 3.40       | 1.80                       | 1.66    | 1.49       |
| E5         | 2.35       | 1.25                       | 1.15    | 1.03       | 5U4G      | 2.10       | 1.11                       | 1.03    | .93        |
| F6         | 2.55       | 1.35                       | 1.25    | 1.12       | 5U4GB     | 2.10       | 1.11                       | 1.03    | .93        |
| S6         | 2.45       | 1.30                       | 1.20    | 1.08       | 5U8       | 3.30       | 1.75                       | 1.62    | 1.46       |
| Y5         | 2.85       | 1.51                       | 1.40    | 1.26       | 5V3       | 3.95       | 2.04                       | 1.89    | 1.70       |
| G4         | 3.40       | 1.80                       | 1.66    | 1.49       | 5V4GA     | 3.50       | 1.86                       | 1.72    | 1.55       |
| K6         | 2.40       | 1.27                       | 1.18    | 1.06       |           |            |                            |         |            |

RECEIVING TUBES CONTINUED ON NEXT PAGE

Receiving Tubes Can Be Purchased on Allied's Convenient Credit Fund Plan

# RCA Receiving Tubes (Cont'd)

QUANTITY PRICES ALSO APPLY TO ASSORTED TUBES

| Tube Type    | List Price | NET EACH In Quantities of: |         |            | Tube Type     | List Price | NET EACH In Quantities of: |         |                  |
|--------------|------------|----------------------------|---------|------------|---------------|------------|----------------------------|---------|------------------|
|              |            | 1 to 5                     | 6 to 49 | 50 or More |               |            | 1 to 5                     | 6 to 49 | 50 or More       |
| 5V6GT        | \$2.20     | 1.17                       | 1.08    | .97        | 6B58          | \$3.75     | 1.99                       | 1.84    | 1.66             |
| 5X4G         | 2.95       | 1.56                       | 1.44    | 1.30       | 6B8U          | 2.80       | 1.48                       | 1.37    | 1.23             |
| 5X8          | 3.30       | 1.75                       | 1.62    | 1.46       | 6BV8          | 3.15       | 1.67                       | 1.54    | 1.39             |
| 5Y3GT        | 1.75       | .93                        | .86     | .77        | 6BW4          | 2.05       | 1.09                       | 1.00    | .90              |
| 5Y4GA        | 2.35       | 1.25                       | 1.15    | 1.03       | 6BW8          | 3.30       | 1.75                       | 1.62    | 1.46             |
| 5Y4GT        | 2.45       | 1.30                       | 1.20    | 1.08       | 6BX7GT        | 4.00       | 2.12                       | 1.96    | 1.76             |
| 5Z3          | 3.00       | 1.59                       | 1.47    | 1.32       | 6BY5GA        | 4.20       | 2.23                       | 2.06    | 1.85             |
| 5Z4          | 5.25       | 2.78                       | 2.57    | 2.31       | 6BY6          | 2.50       | 1.33                       | 1.23    | 1.11             |
| 6A7          | 5.10       | 2.70                       | 2.50    | 2.25       | 6BY8          | 2.25       | 1.19                       | 1.10    | .99              |
| 6A8          | 5.80       | 3.07                       | 2.84    | 2.56       | 6BZ6          | 2.25       | 1.19                       | 1.10    | .99              |
| 6A8GT        | 4.80       | 2.54                       | 2.35    | 2.11       | 6BZ7          | 4.00       | 2.12                       | 1.96    | 1.76             |
| 6AB4         | 2.15       | 1.14                       | 1.05    | .94        | 6BZ8          | 4.45       | 2.36                       | 2.18    | 1.96             |
| 6AB5/6N6     | 4.05       | 2.15                       | 1.98    | 1.78       | 6C4           | 1.85       | .98                        | .91     | .82              |
| 6AB7         | 6.05       | 3.21                       | 2.96    | 2.66       | 6C5           | 3.15       | 1.67                       | 1.54    | 1.39             |
| 6AC5GT       | 4.80       | 2.54                       | 2.35    | 2.11       | 6C6           | 4.80       | 2.54                       | 2.35    | 2.11             |
| 6AC7         | 4.85       | 2.57                       | 2.38    | 2.14       | 6C8G          | 5.10       | 2.70                       | 2.50    | 2.25             |
| 6AD7G        | 6.50       | 3.45                       | 3.19    | 2.87       | 6CA4          | 1.95       | 1.03                       | .96     | .86              |
| 6AF3         | 2.90       | 1.54                       | 1.43    | 1.29       | 6CA5          | 2.50       | 1.33                       | 1.23    | 1.11             |
| 6AF4         | 4.00       | 2.12                       | 1.96    | 1.76       | 6CB5A         | 7.50       | 3.98                       | 3.68    | 3.31             |
| 6AF4A        | 4.00       | 2.12                       | 1.96    | 1.76       | 6CB6A         | 2.25       | 1.19                       | 1.10    | .99              |
| 6AF6G        | 3.70       | 1.96                       | 1.81    | 1.63       | 6CD6GA        | 5.80       | 3.07                       | 2.84    | 2.56             |
| 6AG5         | 2.75       | 1.46                       | 1.35    | 1.21       | 6CE6          | 2.35       | 1.25                       | 1.15    | 1.03             |
| 6AG7         | 5.90       | 3.13                       | 2.89    | 2.60       | 6CF6          | 2.55       | 1.35                       | 1.25    | 1.12             |
| 6AH4GT       | 3.45       | 1.83                       | 1.69    | 1.52       | 6CG7          | 2.45       | 1.30                       | 1.20    | 1.08             |
| 6AH6         | 4.70       | 2.49                       | 2.30    | 2.07       | 6CG8A         | 3.30       | 1.75                       | 1.62    | 1.46             |
| 6AK5         | 4.20       | 2.23                       | 2.06    | 1.85       | 6CH8          | 3.60       | 1.91                       | 1.76    | 1.58             |
| 6AL5         | 1.85       | .98                        | .91     | .82        | 6CK4          | 2.80       | 1.48                       | 1.37    | 1.23             |
| 6AL7GT       | 5.75       | 3.05                       | 2.82    | 2.54       | 6CL6          | 3.75       | 1.99                       | 1.84    | 1.66             |
| 6AM4         | 5.90       | 3.13                       | 2.89    | 2.60       | 6CL8A         | 3.15       | 1.67                       | 1.54    | 1.39             |
| 6AM8A        | 3.25       | 1.72                       | 1.59    | 1.43       | 6CM6          | 2.55       | 1.35                       | 1.25    | 1.12             |
| 6AN4         | 4.95       | 2.62                       | 2.43    | 2.19       | 6CM7          | 3.20       | 1.70                       | 1.57    | 1.41             |
| 6AN8A        | 3.70       | 1.96                       | 1.72    | 1.55       | 6CM8          | 3.55       | 1.88                       | 1.74    | 1.57             |
| 6AQ5A        | 2.15       | 1.14                       | 1.05    | .94        | 6CN7          | 2.75       | 1.46                       | 1.35    | 1.21             |
| 6AQ6         | 2.40       | 1.27                       | 1.18    | 1.06       | 6CQ4*         | 3.00       | 1.59                       | 1.47    | 1.32             |
| 6AQ7GT       | 4.00       | 2.12                       | 1.96    | 1.76       | 6CQ8          | 3.30       | 1.75                       | 1.62    | 1.46             |
| 6AQ8         | 3.15       | 1.67                       | 1.54    | 1.39       | 6CR6          | 2.40       | 1.27                       | 1.18    | 1.06             |
| 6AR5         | 2.65       | 1.40                       | 1.30    | 1.17       | 6CS6          | 2.35       | 1.25                       | 1.15    | 1.03             |
| 6AS5         | 2.55       | 1.35                       | 1.25    | 1.12       | 6CS7          | 2.95       | 1.56                       | 1.44    | 1.30             |
| 6AS8         | 3.35       | 1.78                       | 1.64    | 1.48       | 6CU5          | 2.35       | 1.25                       | 1.15    | 1.03             |
| 6AT6         | 1.90       | 1.01                       | .93     | .84        | 6CU6          |            |                            |         | Use 6BQ6GTB/6CU6 |
| 6AT8A        | 3.40       | 1.80                       | 1.66    | 1.49       | 6CU8          | 3.70       | 1.96                       | 1.81    | 1.63             |
| 6AU4GTA      | 3.60       | 1.91                       | 1.76    | 1.58       | 6CW4 Nuvistor | 4.45       | 2.36                       | 2.18    | 1.96             |
| 6AUG5GT      | 4.30       | 2.28                       | 2.11    | 1.90       | 6CX8          | 3.65       | 1.93                       | 1.79    | 1.61             |
| 6AU6         | 2.10       | 1.11                       | 1.03    | .93        | 6CY5          | 2.75       | 1.46                       | 1.35    | 1.21             |
| 6AUGA        | 2.10       | 1.11                       | 1.03    | .93        | 6CY7          | 2.95       | 1.56                       | 1.44    | 1.30             |
| 6AUBA        | 3.50       | 1.86                       | 1.72    | 1.55       | 6CZ5          | 3.00       | 1.59                       | 1.47    | 1.32             |
| 6AV5GA       | 4.00       | 2.12                       | 1.96    | 1.76       | 6D6           | 4.35       | 2.31                       | 2.13    | 1.92             |
| 6AV6         | 1.65       | .87                        | .81     | .73        | 6D4           | 2.70       | 1.43                       | 1.32    | 1.19             |
| 6AW8A        | 3.70       | 1.96                       | 1.81    | 1.63       | 6DB5          | 2.70       | 1.43                       | 1.32    | 1.19             |
| 6AX4GT       | 2.65       | 1.40                       | 1.30    | 1.17       | 6DB6*         | 2.05       | 1.09                       | 1.00    | .90              |
| 6AX5GT       | 2.95       | 1.56                       | 1.44    | 1.30       | 6DC6          | 3.00       | 1.59                       | 1.47    | 1.32             |
| 6AX8         | 3.70       | 1.96                       | 1.81    | 1.63       | 6DE4          | 2.80       | 1.48                       | 1.37    | 1.23             |
| 6AY3 Novar   | 2.50       | 1.33                       | 1.23    | 1.11       | 6DE6          | 2.55       | 1.35                       | 1.25    | 1.12             |
| 6AZ8         | 4.20       | 2.23                       | 2.06    | 1.85       | 6DE7          | 2.95       | 1.56                       | 1.44    | 1.30             |
| 6B4G*        | 15.00      | 7.95                       | 7.30    | 6.60       | 6DE7          | 2.55       | 1.35                       | 1.25    | 1.12             |
| 6B8          | 5.55       | 2.94                       | 2.72    | 2.45       | 6DJ8*         | 4.55       | 2.41                       | 2.23    | 2.01             |
| 6BA6         | 2.00       | 1.06                       | .96     | .88        | 6DK6          | 2.35       | 1.25                       | 1.15    | 1.03             |
| 6BA7         | 3.70       | 1.96                       | 1.81    | 1.63       | 6DN6          | 6.60       | 3.50                       | 3.23    | 2.91             |
| 6BABA        | 3.70       | 1.96                       | 1.81    | 1.63       | 6DN7          | 3.50       | 1.86                       | 1.72    | 1.55             |
| 6BC4         | 4.90       | 2.60                       | 2.40    | 2.16       | 6DQ5          | 7.70       | 4.08                       | 3.77    | 3.40             |
| 6BC5         | 2.45       | 1.30                       | 1.20    | 1.08       | 6DQ6B         | 4.15       | 2.20                       | 2.03    | 1.83             |
| 6BC7         | 3.80       | 2.01                       | 1.86    | 1.67       | 6DR7          | 2.95       | 1.56                       | 1.44    | 1.30             |
| 6BC8         | 4.00       | 2.12                       | 1.96    | 1.76       | 6DS5          | 2.70       | 1.43                       | 1.32    | 1.19             |
| 6BD6         | 2.45       | 1.30                       | 1.20    | 1.08       | 6DT5          | 3.05       | 1.62                       | 1.49    | 1.34             |
| 6BE6         | 2.20       | 1.17                       | 1.08    | .97        | 6DT6A         | 2.15       | 1.14                       | 1.05    | .94              |
| 6BF6         | 3.55       | 1.88                       | 1.74    | 1.57       | 6DT8          | 3.80       | 2.01                       | 1.86    | 1.67             |
| 6BF6         | 1.80       | .95                        | .88     | .79        | 6DW5          | 3.20       | 1.70                       | 1.57    | 1.41             |
| 6BG6G        | 6.50       | 3.45                       | 3.19    | 2.87       | 6DZ7          | 4.95       | 2.62                       | 2.43    | 2.19             |
| 6BH3         | 2.70       | 1.43                       | 1.32    | 1.19       | 6E5           | 3.00       | 1.59                       | 1.47    | 1.32             |
| 6BH6         | 2.70       | 1.43                       | 1.32    | 1.19       | 6EA5          | 2.80       | 1.48                       | 1.37    | 1.23             |
| 6BH8         | 3.50       | 1.86                       | 1.72    | 1.55       | 6EA7          | 3.45       | 1.83                       | 1.69    | 1.52             |
| 6BJ6         | 2.60       | 1.38                       | 1.27    | 1.14       | 6EA8          | 3.15       | 1.67                       | 1.54    | 1.39             |
| 6BJ7         | 3.15       | 1.67                       | 1.54    | 1.39       | 6EB5*         | 2.90       | 1.54                       | 1.43    | 1.29             |
| 6BJ8         | 2.90       | 1.54                       | 1.43    | 1.29       | 6EB8          | 3.70       | 1.96                       | 1.81    | 1.63             |
| 6BK4         | 7.55       | 4.10                       | 3.70    | 3.33       | 6EH5          | 2.35       | 1.25                       | 1.15    | 1.03             |
| 6BK5         | 3.70       | 1.96                       | 1.81    | 1.63       | 6EH8          | 3.15       | 1.67                       | 1.54    | 1.39             |
| 6BK7B        | 3.40       | 1.80                       | 1.66    | 1.49       | 6EM5          | 3.05       | 1.62                       | 1.49    | 1.34             |
| 6BL7GTA      | 4.15       | 2.20                       | 2.03    | 1.83       | 6EM7          | 3.65       | 1.93                       | 1.79    | 1.61             |
| 6BN4A        | 2.50       | 1.33                       | 1.23    | 1.11       | 6EQ7          | 2.45       | 1.30                       | 1.20    | 1.08             |
| 6BN6         | 3.15       | 1.67                       | 1.54    | 1.39       | 6ER5          | 2.75       | 1.46                       | 1.35    | 1.21             |
| 6BN8         | 2.70       | 1.43                       | 1.32    | 1.19       | 6ES5          | 2.95       | 1.56                       | 1.44    | 1.30             |
| 6BQ5         | 2.35       | 1.25                       | 1.15    | 1.03       | 6ES8          | 4.80       | 2.54                       | 2.35    | 2.11             |
| 6BQ6GTB/6CU6 | 4.35       | 2.21                       | 2.13    | 1.92       | 6EU7          | 2.60       | 1.38                       | 1.27    | 1.14             |
| 6BQ7A        | 3.95       | 2.09                       | 1.94    | 1.75       | 6EU8          | 3.15       | 1.67                       | 1.54    | 1.39             |
| 6BR8A        | 3.50       | 1.86                       | 1.72    | 1.55       | 6EV5          | 3.00       | 1.59                       | 1.47    | 1.32             |





## QUANTITY PRICES ALSO APPLY TO ASSORTED TUBES

### Extra Savings When You Buy More Than 5 Tubes

The first net price column (1 to 5), is for orders of less than 6 tubes. If you buy 6 or more tubes of any one type or assorted types (and up to a total of 49),

use the prices in the second net price column (6 to 49). For 50 tubes and over, use the third price column (50 or More). Take advantage of these quantity prices!

| Tube Type | List Price | NET EACH In Quantities of: |               |            | Tube Type | List Price | NET EACH In Quantities of: |            |            |
|-----------|------------|----------------------------|---------------|------------|-----------|------------|----------------------------|------------|------------|
|           |            | 1 to 5                     | 6 to 49       | 50 or More |           |            | 1 to 5                     | 6 to 49    | 50 or More |
| V7        | \$2.50     | 1.33                       | 1.23          | 1.11       | 6SS7      | \$4.20     | 2.23                       | 2.06       | 1.85       |
| W6        | 2.30       | 1.22                       | 1.13          | 1.02       | 6T4       | 4.55       | 2.23                       | 2.06       | 2.01       |
| X6*       | 5.80       | 3.07                       | 2.84          | 2.56       | 6T8A      | 3.40       | 1.80                       | 1.66       | 1.49       |
| Y6        | 3.00       | 1.59                       | 1.47          | 1.32       | 6U5       | 3.20       | 1.70                       | 1.57       | 1.41       |
| Z5        | 3.25       | 1.72                       | 1.59          | 1.43       | 6U8A      | 3.30       | 1.75                       | 1.62       | 1.46       |
| Z8        | 3.80       | 2.01                       | 1.86          | 1.67       | 6V3A      | 4.55       | 2.41                       | 2.23       | 2.01       |
| 5         | 3.65       | 1.93                       | 1.79          | 1.61       | 6V6       | 5.00       | 2.65                       | 2.45       | 2.20       |
| 6         | 4.20       | 2.23                       | 2.06          | 1.85       | 6V6GTA    | 2.15       | 1.14                       | 1.05       | 0.94       |
| 6G        | 3.65       | 1.93                       | 1.79          | 1.61       | 6W4GT     | 2.40       | 1.27                       | 1.18       | 1.06       |
| 6GT       | 3.65       | 1.93                       | 1.79          | 1.61       | 6W6GT     | 2.85       | 1.51                       | 1.40       | 1.26       |
| 7         | 7.25       | 3.84                       | 3.56          | 3.20       | 6X4       | 1.65       | .87                        | .81        | .73        |
| 8G        | 5.60       | 2.97                       | 2.74          | 2.47       | 6X5GT     | 2.10       | 1.11                       | 1.03       | .93        |
| A7        | 2.50       | 1.33                       | 1.23          | 1.11       | 6X8       | 3.15       | 1.67                       | 1.54       | 1.39       |
| D6*       | 2.25       | 1.19                       | 1.10          | .99        | 6Y6G      | 3.45       | 1.83                       | 1.69       | 1.52       |
| G6        |            |                            | Use EM84/6FG6 |            | 6Y6GA     | 3.45       | 1.83                       | 1.69       | 1.52       |
| H5        | 2.50       | 1.33                       | 1.23          | 1.11       | 6Z4       |            |                            | Use 84/6Z4 |            |
| H8        | 3.30       | 1.75                       | 1.62          | 1.46       | 7A4       | 3.50       | 1.86                       | 1.72       | 1.55       |
| M8        | 3.00       | 1.59                       | 1.47          | 1.32       | 7A5       | 4.00       | 2.12                       | 1.96       | 1.76       |
| 35*       | 2.45       | 1.30                       | 1.20          | 1.08       | 7A6       | 3.45       | 1.83                       | 1.69       | 1.52       |
| 37        | 2.30       | 1.22                       | 1.13          | 1.02       | 7A7       | 3.60       | 1.91                       | 1.76       | 1.58       |
| J6        | 2.75       | 1.46                       | 1.35          | 1.21       | 7A8       | 4.70       | 2.49                       | 2.30       | 2.07       |
| J8        | 3.15       | 1.67                       | 1.54          | 1.39       | 7AFT      | 4.70       | 2.49                       | 2.30       | 2.07       |
| 6G        | 4.50       | 2.39                       | 2.21          | 1.99       | 7AG7      | 4.40       | 2.33                       | 2.16       | 1.94       |
| E8*       | 5.45       | 2.89                       | 2.67          | 2.40       | 7AH7      | 4.40       | 2.33                       | 2.16       | 1.94       |
| H8        | 3.15       | 1.67                       | 1.54          | 1.39       | 7AU7      | 2.60       | 1.38                       | 1.27       | 1.14       |
| K5        | 2.55       | 1.35                       | 1.25          | 1.12       | 7B4       | 3.20       | 1.70                       | 1.57       | 1.41       |
| K6        | 2.75       | 1.46                       | 1.35          | 1.21       | 7B5       | 4.90       | 2.60                       | 2.40       | 2.16       |
| M6        | 2.40       | 1.27                       | 1.18          | 1.06       | 7B6       | 3.60       | 1.91                       | 1.76       | 1.58       |
| N8        | 3.70       | 1.96                       | 1.81          | 1.63       | 7B7       | 3.80       | 2.01                       | 1.86       | 1.67       |
| W6        | 4.15       | 2.20                       | 2.03          | 1.83       | 7B8       | 3.55       | 1.88                       | 1.74       | 1.57       |
| X6        | 2.30       | 1.22                       | 1.13          | 1.02       | 7C5       | 3.50       | 1.86                       | 1.72       | 1.55       |
| Y6        | 2.30       | 1.22                       | 1.13          | 1.02       | 7C6       | 3.75       | 1.99                       | 1.84       | 1.66       |
| Y8        | 3.80       | 2.01                       | 1.86          | 1.67       | 7C7       | 3.60       | 1.91                       | 1.76       | 1.58       |
| 5         | 3.55       | 1.88                       | 1.74          | 1.57       | 7E7       | 4.70       | 2.49                       | 2.30       | 2.07       |
| F8        | 3.70       | 1.96                       | 1.81          | 1.63       | 7EY6      | 3.00       | 1.59                       | 1.47       | 1.32       |
| 58*       | 2.80       | 1.48                       | 1.37          | 1.23       | 7F7       | 4.00       | 2.12                       | 1.96       | 1.76       |
| GT        | 3.10       | 1.64                       | 1.52          | 1.37       | 7F8       | 4.80       | 2.54                       | 2.35       | 2.11       |
| A         | 2.70       | 1.43                       | 1.32          | 1.19       | 7G7       | 4.40       | 2.33                       | 2.16       | 1.94       |
|           | 2.80       | 1.48                       | 1.37          | 1.23       | 7H7       | 4.40       | 2.33                       | 2.16       | 1.94       |
|           | 4.55       | 2.41                       | 2.23          | 2.01       | 7J7       | 5.30       | 2.81                       | 2.60       | 2.34       |
| GT        | 4.35       | 2.31                       | 2.13          | 1.92       | 7K7       | 4.65       | 2.46                       | 2.28       | 2.05       |
| 6GT       | 2.50       | 1.33                       | 1.23          | 1.11       | 7L7*      | 4.25       | 2.25                       | 2.08       | 1.87       |
| 7         | 4.60       | 2.44                       | 2.25          | 2.03       | 7N7       | 3.55       | 1.88                       | 1.74       | 1.57       |
| 7GT       | 3.80       | 2.01                       | 1.86          | 1.67       | 7Q7       | 4.20       | 2.23                       | 2.06       | 1.85       |
| 9         | 4.70       | 2.49                       | 2.30          | 2.07       | 7R7       | 5.30       | 2.81                       | 2.60       | 2.34       |
| GC        | 6.35       | 3.37                       | 3.11          | 2.80       | 7V7       | 4.90       | 2.60                       | 2.40       | 2.16       |
|           | 4.20       | 2.23                       | 2.06          | 1.85       | 7W7       | 5.00       | 2.65                       | 2.45       | 2.20       |
|           | 5.00       | 2.65                       | 2.45          | 2.20       | 7X7       | 6.15       | 3.26                       | 3.01       | 2.71       |
|           |            | Use 6AB5/6N5               |               |            | 7Y4       | 3.15       | 1.67                       | 1.54       | 1.39       |
|           | 4.55       | 2.41                       | 2.23          | 2.01       | 7Z4       | 2.95       | 1.56                       | 1.44       | 1.30       |
| GT        | 4.35       | 2.31                       | 2.13          | 1.92       | 8AU8      | 4.05       | 2.15                       | 1.98       | 1.78       |
| GT*       | 2.80       | 1.48                       | 1.37          | 1.23       | 8AW8A     | 3.70       | 1.96                       | 1.81       | 1.63       |
|           | 3.95       | 2.09                       | 1.94          | 1.75       | 8B8A      | 3.65       | 1.93                       | 1.79       | 1.61       |
| GT        | 3.20       | 1.70                       | 1.57          | 1.41       | 8BH8      | 3.55       | 1.88                       | 1.74       | 1.57       |
|           | 4.35       | 2.31                       | 2.13          | 1.92       | 8BN8      | 2.95       | 1.56                       | 1.44       | 1.30       |
| A         | 2.05       | 1.09                       | 1.00          | .90        | 8BQ5      | 2.40       | 1.27                       | 1.18       | 1.06       |
| GT        | 5.05       | 2.68                       | 2.47          | 2.23       | 8CQ7      | 2.50       | 1.33                       | 1.23       | 1.11       |
| 7         | 4.23       | 2.33                       | 2.16          | 1.94       | 8CM7      | 2.90       | 1.54                       | 1.43       | 1.29       |
| 7GT       | 3.95       | 2.09                       | 1.94          | 1.75       | 8CN7      | 2.60       | 1.38                       | 1.27       | 1.14       |
| 7GT       | 3.70       | 1.96                       | 1.81          | 1.63       | 8CS7*     | 2.95       | 1.56                       | 1.44       | 1.30       |
| 7Y        | 5.35       | 2.83                       | 2.62          | 2.36       | 8CX8      | 3.70       | 1.96                       | 1.81       | 1.63       |
| 5         | 3.85       | 2.04                       | 1.89          | 1.70       | 8EB8      | 3.75       | 1.99                       | 1.84       | 1.66       |
| 6GT       | 3.10       | 1.64                       | 1.52          | 1.37       | 8EM5      | 3.70       | 1.96                       | 1.81       | 1.63       |
| 7         | 3.20       | 1.70                       | 1.57          | 1.41       | 8ET7      | 3.65       | 1.93                       | 1.79       | 1.61       |
| 8GT       | 4.75       | 2.52                       | 2.33          | 2.10       | 8FQ7      | 2.35       | 1.25                       | 1.15       | 1.03       |
| 57        | 4.20       | 2.23                       | 2.06          | 1.85       | 8GN8      | 3.75       | 1.99                       | 1.84       | 1.66       |
| 17        | 4.05       | 2.15                       | 1.98          | 1.78       | 9AU7      | 2.80       | 1.48                       | 1.37       | 1.23       |
| 7         | 3.75       | 1.99                       | 1.84          | 1.66       | 9B7       | 2.75       | 1.46                       | 1.35       | 1.21       |
| 7GT       | 3.70       | 1.96                       | 1.81          | 1.63       | 9CL8      | 3.15       | 1.67                       | 1.54       | 1.39       |
| 7GT       | 3.60       | 1.91                       | 1.76          | 1.58       | 9U8A      | 3.30       | 1.75                       | 1.62       | 1.46       |
| GT        | 3.55       | 1.88                       | 1.74          | 1.57       | 10C8      | 4.25       | 2.25                       | 2.08       | 1.87       |
| GT        | 3.60       | 1.86                       | 1.72          | 1.55       | 10DE7     | 2.95       | 1.56                       | 1.44       | 1.30       |
| GTB       | 3.60       | 1.86                       | 1.72          | 1.55       | 10EG7     | 3.15       | 1.67                       | 1.54       | 1.39       |
| 7         | 3.30       | 1.75                       | 1.62          | 1.46       | 10EM7     | 3.70       | 1.96                       | 1.81       | 1.63       |
| 7GT       | 3.00       | 1.59                       | 1.47          | 1.32       |           |            |                            |            |            |
| 17        | 3.25       | 1.72                       | 1.59          | 1.43       |           |            |                            |            |            |

RECEIVING TUBES CONTINUED ON NEXT PAGE

# RCA Receiving Tubes (Cont'd)

QUANTITY PRICES ALSO APPLY TO ASSORTED TUBES

| Tube Type      | List Price | NET EACH In Quantities of: |         |            | Tube Type       | List Price | NET EACH In Quantities of: |         |            |
|----------------|------------|----------------------------|---------|------------|-----------------|------------|----------------------------|---------|------------|
|                |            | 1 to 5                     | 6 to 49 | 50 or More |                 |            | 1 to 5                     | 6 to 49 | 50 or More |
| 10HF8          | \$3.75     | 1.99                       | 1.84    | 1.66       | 12FM6           | \$2.00     | 1.06                       | .98     | .88        |
| 11CV7          | 3.00       | 1.59                       | 1.47    | 1.32       | 12FQ8           | 2.95       | 1.56                       | 1.44    | 1.30       |
| 12A8GT         | 5.30       | 2.81                       | 2.60    | 2.34       | 12FR8           | 4.35       | 2.31                       | 2.13    | 1.92       |
| 12AB5          | 2.45       | 1.30                       | 1.20    | 1.08       | 12FX8           | 3.80       | 2.01                       | 1.86    | 1.67       |
| 12AC6          | 2.20       | 1.17                       | 1.08    | .97        | 12GA6           | 2.30       | 1.22                       | 1.13    | 1.02       |
| 12AD6          | 2.40       | 1.27                       | 1.18    | 1.06       | 12GC6           | 4.20       | 2.23                       | 2.06    | 1.85       |
| 12AE6A         | 2.05       | 1.09                       | 1.00    | .90        | 12H6            | 3.30       | 1.75                       | 1.62    | 1.46       |
| 12AF7          | 3.75       | 1.99                       | 1.84    | 1.66       | 12J5GT          | 2.95       | 1.56                       | 1.44    | 1.36       |
| 12AF3          | 2.90       | 1.54                       | 1.43    | 1.29       | 12J7GT          | 4.60       | 2.44                       | 2.25    | 2.00       |
| 12AF6          | 2.35       | 1.25                       | 1.15    | 1.03       | 12J8            | 3.30       | 1.75                       | 1.62    | 1.46       |
| 12AH7GT        | 4.20       | 2.23                       | 2.06    | 1.85       | 12K5            | 2.95       | 1.56                       | 1.44    | 1.30       |
| 12AJ6          | 2.05       | 1.09                       | 1.00    | .90        | 12K7GT          | 4.05       | 2.15                       | 1.98    | 1.78       |
| 12AL5          | 1.90       | 1.01                       | .93     | .84        | 12K8            | 5.70       | 3.02                       | 2.79    | 2.51       |
| 12AL8          | 4.25       | 2.25                       | 2.08    | 1.87       | 12L6GT          | 2.50       | 1.33                       | 1.23    | 1.11       |
| 12AQ5          | 2.60       | 1.38                       | 1.27    | 1.14       | 12Q7GT          | 3.65       | 1.93                       | 1.79    | 1.61       |
| 12AT6          | 1.85       | .98                        | .91     | .82        | 12R5            | 2.60       | 1.38                       | 1.27    | 1.14       |
| 12AT7          | 3.05       | 1.62                       | 1.49    | 1.34       | 12SA7           | 3.95       | 2.09                       | 1.94    | 1.75       |
| 12AU6          | 2.15       | 1.14                       | 1.05    | .94        | 12SA7GT         | 3.25       | 1.72                       | 1.59    | 1.43       |
| 12AU7A         | 2.45       | 1.30                       | 1.20    | 1.08       | 12SC7           | 3.80       | 2.01                       | 1.86    | 1.67       |
| 12AV5GA        | 3.85       | 2.04                       | 1.89    | 1.70       | 12SF5           | 3.20       | 1.70                       | 1.57    | 1.41       |
| 12AV6          | 1.65       | .87                        | .81     | .73        | 12SF7           | 4.75       | 2.52                       | 2.33    | 2.10       |
| 12AW6          | 3.40       | 1.80                       | 1.66    | 1.49       | 12SG7           | 4.20       | 2.23                       | 2.06    | 1.85       |
| 12AX4GTB       | 3.30       | 1.75                       | 1.62    | 1.46       | 12SH7           | 4.00       | 2.12                       | 1.96    | 1.76       |
| 12AX7          | 2.70       | 1.43                       | 1.32    | 1.19       | 12SJ7           | 3.75       | 1.99                       | 1.84    | 1.66       |
| 12AX7A         | 2.55       | 1.35                       | 1.25    | 1.12       | 12SK7           | 3.60       | 1.91                       | 1.76    | 1.58       |
| 12AY3          | 2.55       | 1.35                       | 1.25    | 1.12       | 12SK7GT         | 3.55       | 1.88                       | 1.74    | 1.57       |
| 12AY3 Novar    | 2.50       | 1.33                       | 1.23    | 1.11       | 12SL7GT         | 3.75       | 3.99                       | 1.84    | 1.66       |
| 12AZ7          | 5.00       | 2.65                       | 2.45    | 2.20       | 12SN7GTA        | 2.70       | 1.43                       | 1.32    | 1.19       |
| 12B6           | 2.75       | 1.46                       | 1.35    | 1.21       | 12SQ7           | 3.30       | 1.75                       | 1.62    | 1.46       |
| 12B4A          | 2.85       | 1.51                       | 1.40    | 1.26       | 12SQ7GT         | 2.90       | 1.54                       | 1.43    | 1.29       |
| 12BA6          | 1.65       | .87                        | .81     | .73        | 12SR7           | 3.30       | 1.75                       | 1.62    | 1.46       |
| 12BA7          | 3.95       | 2.09                       | 1.94    | 1.75       | 12U7            | 2.65       | 1.40                       | 1.30    | 1.17       |
| 12BB6          | 2.45       | 1.30                       | 1.20    | 1.08       | 12V6GT          | 2.15       | 1.14                       | 1.05    | .94        |
| 12BE6          | 1.75       | .93                        | .86     | .77        | 12W6GT          | 3.00       | 1.59                       | 1.47    | 1.32       |
| 12BF6          | 2.20       | 1.17                       | 1.08    | .97        | 12X4            | 1.90       | 1.01                       | .93     | .84        |
| 12BH7A         | 3.05       | 1.62                       | 1.49    | 1.34       | 13DE7           | 2.95       | 1.56                       | 1.44    | 1.30       |
| 12BK6          | 4.00       | 2.12                       | 1.96    | 1.76       | 13DR7           | 2.95       | 1.56                       | 1.44    | 1.30       |
| 12BL6          | 2.30       | 1.22                       | 1.13    | 1.02       | 13EM7           | 3.70       | 1.96                       | 1.81    | 1.63       |
| 12BN6*         | 3.05       | 1.62                       | 1.49    | 1.34       | 14A7            | 3.95       | 2.09                       | 1.94    | 1.75       |
| 12BQ6GTB/12CU6 | 4.45       | 2.36                       | 2.18    | 1.96       | 14AF7           | 4.05       | 2.15                       | 1.98    | 1.78       |
| 12BR7          | 2.95       | 1.56                       | 1.44    | 1.30       | 14B6            | 3.60       | 1.91                       | 1.76    | 1.58       |
| 12BV7          | 3.05       | 1.62                       | 1.49    | 1.34       | 14C7            | 4.00       | 2.12                       | 1.96    | 1.76       |
| 12BW4          | 1.75       | .93                        | .86     | .77        | 14F7            | 4.40       | 2.33                       | 2.16    | 1.94       |
| 12BY7A         | 3.20       | 1.70                       | 1.57    | 1.41       | 14F8            | 4.70       | 2.49                       | 2.30    | 2.07       |
| 12BZ6          | 2.25       | 1.19                       | 1.10    | .99        | 14GT8           | 3.00       | 1.59                       | 1.47    | 1.32       |
| 12BZ7          | 3.05       | 1.62                       | 1.49    | 1.34       | 14Q7            | 4.20       | 2.23                       | 2.06    | 1.85       |
| 12C5           | 2.65       | 1.35                       | 1.25    | 1.11       | 14R7            | 5.35       | 2.83                       | 2.62    | 2.36       |
| 12CA5          | 6.80       | 3.60                       | 3.33    | 3.00       | 17AX4GT         | 2.70       | 1.43                       | 1.32    | 1.19       |
| 12CN5          | 2.50       | 1.33                       | 1.23    | 1.11       | 17AY3 Novar     | 5.00       | 2.65                       | 2.45    | 2.20       |
| 12CR6          | 2.40       | 1.30                       | 1.20    | 1.08       | 17BQ6GTB        | 5.00       | 2.65                       | 2.45    | 2.20       |
| 12CT8          | 4.05       | 2.15                       | 1.98    | 1.78       | 17D4            | 2.75       | 1.46                       | 1.35    | 1.21       |
| 12CU6/12C5     | 2.35       | 1.25                       | 1.15    | 1.03       | 17DE4           | 2.85       | 1.51                       | 1.40    | 1.26       |
| 12CU6          | 2.50       | 1.33                       | 1.23    | 1.11       | 17DM4           | 2.85       | 1.51                       | 1.40    | 1.26       |
| 12CX6          | 2.50       | 1.33                       | 1.23    | 1.11       | 17DQ6B          | 4.25       | 2.25                       | 2.08    | 1.87       |
| 12D4           | 2.75       | 1.46                       | 1.35    | 1.21       | 17GW6           | 4.25       | 2.25                       | 2.08    | 1.87       |
| 12DB5          | 2.75       | 1.46                       | 1.35    | 1.21       | 17H3            | 2.15       | 1.14                       | 1.05    | .94        |
| 12DE8          | 3.30       | 1.75                       | 1.62    | 1.46       | 17R5*           | 2.60       | 1.38                       | 1.27    | 1.14       |
| 12DF7*         | 2.60       | 1.38                       | 1.27    | 1.14       | 18A5            | 4.15       | 2.20                       | 2.03    | 1.83       |
| 12DK7          | 2.95       | 1.56                       | 1.44    | 1.30       | 18FW6           | 2.00       | 1.06                       | .98     | .88        |
| 12DL8          | 4.05       | 2.15                       | 1.98    | 1.78       | 18FX6           | 2.15       | 1.14                       | 1.05    | .94        |
| 12DQ6B         | 4.20       | 2.23                       | 2.06    | 1.85       | 18FY6           | 1.65       | .87                        | .81     | .73        |
| 12DS7          | 3.30       | 1.75                       | 1.62    | 1.46       | 19AU4           | 3.50       | 1.86                       | 1.72    | 1.55       |
| 12DT5          | 3.40       | 1.80                       | 1.66    | 1.49       | 19AU4GTA*       | 3.45       | 1.83                       | 1.69    | 1.52       |
| 12DT8          | 3.05       | 1.62                       | 1.49    | 1.34       | 19BG6GA         | 6.50       | 3.45                       | 3.19    | 2.87       |
| 12DT8          | 3.80       | 2.01                       | 1.86    | 1.67       | 19CL8A          | 3.15       | 1.67                       | 1.54    | 1.39       |
| 12DU7          | 3.35       | 1.78                       | 1.64    | 1.48       | 19EA8           | 3.15       | 1.67                       | 1.54    | 1.39       |
| 12DV7*         | 2.95       | 1.56                       | 1.44    | 1.30       | 19J6            | 3.45       | 1.83                       | 1.69    | 1.52       |
| 12DV8          | 3.55       | 1.88                       | 1.74    | 1.57       | 19T8            | 3.40       | 1.80                       | 1.66    | 1.49       |
| 12DW7          | 2.85       | 1.51                       | 1.40    | 1.26       | 19X8            | 3.70       | 1.96                       | 1.81    | 1.63       |
| 12DW8*         | 3.55       | 1.88                       | 1.74    | 1.57       | 20EZ7           | 2.60       | 1.38                       | 1.27    | 1.14       |
| 12DY8          | 3.55       | 1.88                       | 1.74    | 1.57       | 21EX6           | 5.70       | 3.02                       | 2.79    | 2.51       |
| 12DZ6          | 2.55       | 1.35                       | 1.25    | 1.12       | 22DE4           | 2.85       | 1.51                       | 1.40    | 1.26       |
| 12EA6          | 2.65       | 1.40                       | 1.30    | 1.17       | 24A             | 4.55       | 2.41                       | 2.23    | 2.01       |
| 12EC8          | 3.30       | 1.75                       | 1.62    | 1.46       | 25AV5GA         | 4.25       | 2.25                       | 2.08    | 1.87       |
| 12ED5          | 2.50       | 1.33                       | 1.23    | 1.11       | 25AX4GT         | 2.90       | 1.54                       | 1.43    | 1.29       |
| 12EG6          | 2.30       | 1.22                       | 1.13    | 1.02       | 25BK5           | 3.65       | 1.93                       | 1.79    | 1.61       |
| 12EH6          | 2.35       | 1.25                       | 1.15    | 1.03       | 25BQ6GTB, 25CU6 | 4.65       | 2.46                       | 2.28    | 2.05       |
| 12EK6          | 2.55       | 1.35                       | 1.25    | 1.12       | 25C5            | 2.15       | 1.14                       | 1.05    | .94        |
| 12EL6          | 2.00       | 1.06                       | .98     | .88        | 25CA5           | 2.50       | 1.33                       | 1.23    | 1.11       |
| 12EM6          | 3.15       | 1.67                       | 1.54    | 1.39       | 25CD6GB         | 5.85       | 3.10                       | 2.87    | 2.58       |
| 12EN6          | 3.05       | 1.62                       | 1.49    | 1.34       | 25CU6           | 5.55       | 2.94                       | 2.72    | 2.45       |
| 12EQ7          | 2.35       | 1.25                       | 1.15    | 1.03       | 25DN6           | 5.70       | 3.02                       | 2.79    | 2.51       |
| 12F3           | 2.75       | 1.46                       | 1.35    | 1.21       | 25EH5           | 2.30       | 1.22                       | 1.13    | 1.02       |
| 12FK6          | 2.10       | 1.11                       | 1.03    | .93        | 25F5*           | 2.35       | 1.25                       | 1.15    | 1.03       |



# RCA Receiving Tubes—Hi-Fi and Special Audio Tubes

## RCA RECEIVING TUBES (Cont'd)

| Tube Type | List Price | NET EACH In Quantities of: |         |            |  | Tube Type     | List Price | NET EACH In Quantities of: |                   |            |  |
|-----------|------------|----------------------------|---------|------------|--|---------------|------------|----------------------------|-------------------|------------|--|
|           |            | 1 to 5                     | 6 to 49 | 50 or More |  |               |            | 1 to 5                     | 6 to 49           | 50 or More |  |
| 5L6       | \$6.40     | 3.39                       | 3.14    | 2.83       |  | 50X6          | \$4.25     | 2.25                       | 2.08              | 1.87       |  |
| 5L6GT     | 2.35       | 1.25                       | 1.15    | 1.03       |  | 50Y6GT        | 2.95       | 1.56                       | 1.44              | 1.30       |  |
| 5W4GT     | 2.70       | 1.43                       | 1.32    | 1.19       |  | 50Y7GT        | 3.05       | 1.62                       | 1.49              | 1.34       |  |
| 5Z5       | 3.15       | 1.67                       | 1.54    | 1.39       |  | 60FX5         | 2.35       | 1.25                       | 1.15              | 1.03       |  |
| 5Z6GT     | 2.90       | 1.54                       | 1.43    | 1.29       |  | 70L7GT        | 10.15      | 5.38                       | 4.98              | 4.48       |  |
| 6*        | 4.35       | 2.31                       | 2.13    | 1.92       |  | 71A*          | 5.10       | 2.70                       | 2.50              | 2.25       |  |
| 7         | 4.35       | 2.31                       | 2.13    | 1.92       |  | 75            | 5.10       | 2.70                       | 2.50              | 2.25       |  |
| 2ET5      | 2.20       | 1.17                       | 1.08    | .97        |  | 78            | 5.10       | 2.70                       | 2.50              | 2.25       |  |
| 4GD5      | 2.10       | 1.11                       | 1.03    | .93        |  | 80            | 2.90       | 1.54                       | 1.43              | 1.29       |  |
| 5A5       | 4.00       | 2.12                       | 1.96    | 1.76       |  | 84/6Z4        | 2.95       | 1.56                       | 1.44              | 1.30       |  |
| 5B5       | 2.65       | 1.40                       | 1.30    | 1.17       |  | 117L7/117M7GT | 10.15      | 5.38                       | 4.98              | 4.48       |  |
| 5C5       | 2.15       | 1.14                       | 1.05    | .94        |  | 117M7GT       |            |                            | Use 117L7/117M7GT |            |  |
| 5DZ8      | 3.10       | 1.64                       | 1.52    | 1.37       |  | 117N7GT       | 10.25      | 5.43                       | 5.02              | 4.51       |  |
| 5EH5      | 2.30       | 1.22                       | 1.13    | 1.02       |  | 117P7GT       | 10.25      | 5.43                       | 5.02              | 4.51       |  |
| 5GL6      | 2.30       | 1.22                       | 1.13    | 1.02       |  | 117Z3         | 2.50       | 1.33                       | 1.23              | 1.11       |  |
| 5L6GT     | 2.40       | 1.27                       | 1.18    | 1.06       |  | 117Z6GT       | 4.40       | 2.33                       | 2.16              | 1.94       |  |
| 5W4       | 1.01       | .53                        | .49     | .44        |  | 5642*         | 5.00       | 2.65                       | 2.45              | 2.20       |  |
| 5Y4       | 2.80       | 1.48                       | 1.37    | 1.23       |  | 5879          | 4.05       | 2.15                       | 1.98              | 1.78       |  |
| 5Z3       | 3.00       | 1.59                       | 1.47    | 1.32       |  | 5881          | 6.40       | 3.39                       | 3.14              | 2.83       |  |
| 5Z4GT     | 2.35       | 1.25                       | 1.15    | 1.03       |  | 6973          | 4.50       | 2.39                       | 2.21              | 1.99       |  |
| 5Z5GT     | 1.85       | .98                        | .91     | .82        |  | 7025          | 2.95       | 1.56                       | 1.44              | 1.30       |  |
| 6AM3A     | 1.50       | .80                        | .73     | .66        |  | 7027A         | 5.00       | 2.81                       | 2.60              | 2.34       |  |
| 1         | 3.85       | 2.04                       | 1.89    | 1.70       |  | 7056*         | 2.45       | 1.30                       | 1.20              | 1.08       |  |
| 2         | 3.85       | 2.04                       | 1.89    | 1.70       |  | 7167*         | 3.85       | 2.04                       | 1.89              | 1.70       |  |
| 3         | 4.75       | 2.52                       | 2.33    | 2.10       |  | 7189          | 2.65       | 1.40                       | 1.30              | 1.17       |  |
| 7         | 9.15       | 4.85                       | 4.48    | 4.03       |  | 7199          | 3.30       | 1.75                       | 1.62              | 1.46       |  |
| 0A5       | 4.25       | 2.25                       | 2.08    | 1.87       |  | 7247          | 2.85       | 1.51                       | 1.40              | 1.26       |  |
| 0B5       | 2.65       | 1.40                       | 1.30    | 1.17       |  | 7408*         | 2.20       | 1.17                       | 1.08              | .97        |  |
| 0C5       | 2.15       | 1.14                       | 1.05    | .94        |  | 7543          | 2.20       | 1.17                       | 1.08              | .97        |  |
| 0DC4      | 1.55       | .82                        | .76     | .68        |  | 7591*         | 3.05       | 1.62                       | 1.49              | 1.34       |  |
| 0EH5      | 2.30       | 1.22                       | 1.13    | 1.02       |  | 7695*         | 2.95       | 1.56                       | 1.44              | 1.30       |  |
| 0FE5      | 3.65       | 1.93                       | 1.79    | 1.61       |  | 7734*         | 5.45       | 2.89                       | 2.67              | 2.40       |  |
| 0L6GT     | 2.55       | 1.35                       | 1.25    | 1.12       |  | 7868 Novar    | 3.25       | 1.72                       | 1.59              | 1.43       |  |

### Gold Seal CUSTOM AUDIO TUBES BY GENALEX

New series of deluxe replacement tubes for high-fidelity components. Offer ultra-reliable, distortion-free design. Each tube is carefully hand-crafted and quality-controlled during manufacture—actually measures up to prototype laboratory standard! 100% tested in every major characteristic; includes test report. When ordering, give full Stock No., which consists of Dept. No. and the Mfr's Type No. thus: E7-GL-KT77. Av. wt., 4 oz.



| Dept. | Type    | Replaces:                                                             | NET EACH |
|-------|---------|-----------------------------------------------------------------------|----------|
| E7    | GL-B739 | 12A7, ECC81, 6060, 6201, 6679, 8309                                   | 3.20     |
| E7    | GL-B749 | 12A7, ECC82, 5814, 6067, 6189, 6680                                   | 2.80     |
| E7    | GL-B759 | 12A7, ECC83, 5721, 5751, 6057, 6681, 7025, 7247                       | 3.00     |
| E7    | GL-D717 | 6AL5, 5726, 6058, 6097, 6663, EB91, D77                               | 3.80     |
| E7    | GL-KT66 | 6L6, 6L6G, 5881, 5932, 1614, 1622, 7027, 6CN5, EL35, EL36, EL37, EL39 | 4.50     |
| E7    | GL-KT77 | 6L6G, EL34, 6CA7, 7581                                                | 5.50     |
| E7    | GL-KT88 | 6L6G, 6550, 7027A                                                     | 6.95     |
| E7    | GL-N709 | 6BQ5, EL84                                                            | 3.80     |
| E7    | GL-U52  | 5040, 574, 5931                                                       | 2.90     |
| E7    | GL-U77  | 50Z3, GZ32, GZ33, GZ34, 5A94, 5V4, 5Z4                                | 3.70     |
| E7    | GL-U707 | 6X4, 6BX4, U78, E290, 5993, 6063, 6202, 6203                          | 3.40     |
| E7    | GL-U709 | 6CA4, E281                                                            | 3.20     |
| E7    | GL-Z729 | IEF86, 6267, 6CF8                                                     | 3.00     |

#### MATCHED PAIRS

| Dept. | Type       | Replace Pairs of:                                                     | Per Pr |
|-------|------------|-----------------------------------------------------------------------|--------|
| E7    | GL-N709-MP | 6BQ5, EL84                                                            | 8.60   |
| E7    | GL-KT66-MP | 6L6, 6L6G, 5881, 5932, 1614, 1622, 7027, 6CN5, EL35, EL36, EL37, EL39 | 10.00  |
| E7    | GL-KT77-MP | 6L6G, EL34, 6CA7, 7581                                                | 12.00  |
| E7    | GL-KT88-MP | 6L6G, 6550, 7027A                                                     | 14.90  |

CRUITS FOR AUDIO AMPLIFIERS BOOK. By Mullard Ltd. of England. 15 Chapters on circuit designs. 8x10 1/2, 136 pages. 19 K 246. Postpaid in U.S.A. .... 2.50

### SELECTED HIGH-FIDELITY TUBES FOR TOP AUDIO PERFORMANCE

Specialized tubes for getting the most out of your audio equipment. Carefully made and thoroughly tested to provide full fidelity, hum-free operation and long life. Laboratory-balanced, matched pairs listed below, are recommended for optimum performance—important in the power output stages of high-fidelity amplifiers. Amp—Amperex; Gen—Genalex; Mull—Mullard; Tung—Tungsol. Directly interchangeable

\* may require some rewiring. Wt., 4 oz.

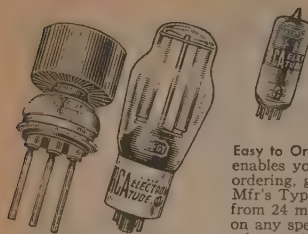
| Stock No.    | Mfr. | Tube Type | Equiv. Tube   | NET EACH | Stock No.  | Mfr. | Tube Type | Equiv. Tube | NET EACH |
|--------------|------|-----------|---------------|----------|------------|------|-----------|-------------|----------|
| E4-5AR4      | Amp  | 5AR4      | GZ34          | 2.20     | E3-EF89    | Mull | EF89      | 6DA6        | 1.65     |
| E4-6CA7      | Amp  | 6CA7/EL34 | EL34          | 2.90     | E3-EC90    | Mull | EC90      | 6C4         | 1.94     |
| E3-GZ32      | Mull | GZ32      |               | 2.54     | E3-EK90    | Mull | EK90      | 6BE6        | 1.22     |
| E3-EL34      | Mull | EL34      | 6CA7          | 3.16     | E3-EL90    | Mull | EL90      | 6AQ5        | 1.16     |
| E3-GZ34      | Mull | GZ34      | 5AR4          | 2.27     | E3-EZ90    | Mull | EZ90      | 6X4         | .87      |
| E4-EL37      | Amp  | EL37      | 6L6           | 3.20     | E3-EB91    | Mull | EB91      | 6AL5        | .95      |
| E3-EL37      | Mull | EL37      | 6L6           | 3.40     | E3-ECC91   | Mull | ECC91     | 6J6         | 1.43     |
| E3-KT61      | Gen  | KT61      |               | 3.75     | E3-EF93    | Mull | EF93      | 6BA6        | 1.08     |
| E3-KT66      | Gen  | KT66      | 6L6           | 3.50     | E3-EF94    | Mull | EF94      | 6AU6        | 1.08     |
| E3-DM70      | Mull | DM70      | 1M3           | 1.05     | E3-EF95    | Mull | EF95      | 6AK5        | 2.30     |
| E3-EAB80     | Mull | EAB80     | 6A8K          | 1.92     | E3-EL95    | Mull | EL95      | 6DL5        | 1.29     |
| E3-EFB80     | Mull | EFB80     | 6N8           | 1.67     | EL-1614    | RCA  | 1614      | .....       | 4.10     |
| E3-EFC80     | Mull | EFC80     | 6BL8          | 2.06     | EL-1620    | RCA  | 1620*     | 6J7         | 6.99     |
| E3-EF80      | Mull | EF80      | 6BX6          | 1.68     | EL-1621    | RCA  | 1621*     | 6F6         | 2.90     |
| E4-EM80/GBR5 | Amp  | EM80/GBR5 | .....         | 1.23     | EL-1622    | RCA  | 1622*     | 6L6         | 4.05     |
| E3-EZ80      | Mull | EZ80      | 6V4           | .81      | EL-5881    | RCA  | 5881      | 6L6         | 3.39     |
| E4-ECC81     | Amp  | ECC81     | 12A7          | 1.53     | E3-5881    | Tung | 5881      | 6L6         | 3.50     |
| E3-ECC81     | Mull | ECC81     | 12A7          | 1.55     | E4-6267    | Amp  | 6267      | EF86        | 1.39     |
| E3-ECH81     | Mull | ECH81     | 6AJ8          | 1.83     | E3-6550    | Tung | 6550      | .....       | 4.95     |
| E3-EM81      | Mull | EM81      | 6DA5          | 1.41     | E3-7025    | Mull | 7025      | .....       | 1.40     |
| E4-EZ81      | Amp  | EZ81      | 6CA4          | 1.05     | EL-7189    | RCA  | 7189      | .....       | 1.40     |
| E3-EZ81      | Mull | EZ81      | 6CA4          | 1.14     | E3-7189    | Mull | 7189      | .....       | 1.56     |
| E4-ECC82     | Amp  | ECC82     | 12A07         | 1.23     | E3-7247    | Mull | 7247      | .....       | 1.55     |
| E3-ECC82     | Mull | ECC82     | 12A07         | 1.27     |            |      |           |             |          |
| E3-ECCF82    | Mull | ECCF82    | 6U8           | 2.03     |            |      |           |             |          |
| E3-UCL82     | Mull | UCL82     | 50BM8         | 1.62     |            |      |           |             |          |
| E4-ECC83     | Amp  | ECC83     | 12AX7         | 1.28     | E4-6CA7MP  | Amp  | 6CA7/EL34 | EL34        | 6.80     |
| E3-ECC83     | Mull | ECC83     | 12AX7         | 1.28     | E3-EL34MP  | Mull | EL34      | 6CA7        | 6.86     |
| E4-EL84      | Amp  | EL84      | 6BQ5          | 1.45     | E4-EL37MP  | Amp  | EL37      | 6L6         | 6.82     |
| E3-EL84      | Mull | EL84      | 6BQ5          | 1.25     | E3-EL37MP  | Mull | EL37      | 6L6         | 6.82     |
| E3-UL84      | Mull | UL84      | 45B5          | 1.49     | E3-KT61MP  | Gen  | KT61      | 6L6         | 9.25     |
| E4-UL84      | Amp  | UL84      | 88Q5          | 1.30     | E3-KT66MP  | Gen  | KT66      | 6L6         | 8.75     |
| E4-ECC85     | Amp  | ECC85     | 6AQ4          | 1.45     | E3-ECL82MP | Mull | ECL82     | 6BM8        | 3.65     |
| E3-ECC85     | Mull | ECC85     | 6AQ4          | 1.45     | E3-UCL82MP | Mull | UCL82     | 50BM8       | 3.90     |
| E3-ECC85     | Mull | ECC85     | 6AQ4          | 1.45     | E4-EL84MP  | Amp  | EL84      | 6BQ5        | 2.63     |
| E3-EF85      | Mull | EF85      | 6BY7          | 1.89     | E4-EL84MP  | Mull | EL84      | 6BQ5        | 2.84     |
| E3-EF85      | Mull | EF85      | 6BY7          | 1.89     | E3-UL84MP  | Mull | UL84      | 45B5        | 3.38     |
| E3-EF86      | Mull | EF86      | Use Type 6267 | 1.38     | E3-EL86MP  | Mull | EL86      | 6CW5        | 3.32     |
| E3-EL86      | Mull | EL86      | 6CW5          | 1.43     | E3-KT88MP  | Gen  | KT88      | .....       | 13.65    |
| E3-UF86      | Mull | UF86      | .....         | 1.76     | E3-EL90MP  | Mull | EL90      | 6A05        | 2.73     |
| E4-ECC88     | Amp  | ECC88     | 6DJ8          | 1.89     | E3-EL95MP  | Mull | EL95      | 6DL5        | 2.73     |
| E3-KT88      | Gen  | KT88      | .....         | 5.95     | E3-5881MP  | Tung | 5881      | 6L6         | 7.85     |
| E3-EFB89     | Mull | EFB89     | 6DC8          | 1.76     | E3-6550MP  | Tung | 6550      | .....       | 10.55    |
|              |      |           |               |          | E3-7189MP  | Mull | 7189      | .....       | 3.53     |

#### MATCHED PAIRS

| Stock No.  | Mfr. | Tube Types | Equiv. Tubes | PER PAIR |
|------------|------|------------|--------------|----------|
| E4-6CA7MP  | Amp  | 6CA7/EL34  | EL34         | 6.80     |
| E3-EL34MP  | Mull | EL34       | 6CA7         | 6.86     |
| E4-EL37MP  | Amp  | EL37       | 6L6          | 6.82     |
| E3-EL37MP  | Mull | EL37       | 6L6          | 6.82     |
| E3-KT61MP  | Gen  | KT61       | 6L6          | 9.25     |
| E3-KT66MP  | Gen  | KT66       | 6L6          | 8.75     |
| E3-ECL82MP | Mull | ECL82      | 6BM8         | 3.65     |
| E3-UCL82MP | Mull | UCL82      | 50BM8        | 3.90     |
| E4-EL84MP  | Amp  | EL84       | 6BQ5         | 2.63     |
| E4-EL84MP  | Mull | EL84       | 6BQ5         | 2.84     |
| E3-UL84MP  | Mull | UL84       | 45B5         | 3.38     |
| E3-EL86MP  | Mull | EL86       | 6CW5         | 3.32     |
| E3-KT88MP  | Gen  | KT88       | .....        | 13.65    |
| E3-EL90MP  | Mull | EL90       | 6A05         | 2.73     |
| E3-EL95MP  | Mull | EL95       | 6DL5         | 2.73     |
| E3-5881MP  | Tung | 5881       | 6L6          | 7.85     |
| E3-6550MP  | Tung | 6550       | .....        | 10.55    |
| E3-7189MP  | Mull | 7189       | .....        | 3.53     |



# Hi-Fi and Special-Purpose Tubes



## MANUFACTURER'S ABBREVIATIONS

|      |                      |      |                      |
|------|----------------------|------|----------------------|
| AMP  | Amperex Elect. Corp. | RCA  | Radio Corp. of Amer. |
| CEC  | Cont./Elect. Corp.   | RAY  | Raytheon Mfg. Co.    |
| EIM  | Eitel McCullough     | SYL  | Sylvania             |
| GE   | General Electric     | TAY  | Taylor Tubes, Inc.   |
| GEN  | Genalex              | TUNG | Tungsol              |
| MULL | Mullard Products     | UE   | United Electronics   |
| PEN  | Penta Labs, Inc.     | VIC  | Victoreen            |

Easy to Order—Specify Department and Tube Type. This tabular presentation enables you to locate the tube types you want, quickly and easily. When ordering, give the full Stock No., which consists of the Dept. No. and the Mfr's Type No., thus: E1-OA2. Allied stocks over 900 different tube types, from 24 manufacturers, ready for immediate delivery. Write for information on any special-purpose tube not shown here—we carry complete lines of our tube suppliers. *MP* after tube type indicates matched pair.

## HIGH-RELIABILITY & HI-FI TUBES



High-reliability tubes for RF, audio, Amateur and experimental uses, and other critical applications. RCA "Premium" and G.E. "Five-Star" types are indicated by an asterisk\*, or asterisk with prototype tube in brackets thus: 5725 \*(6AS6). Hi fi tubes, for use in audio circuits, are indicated by a†; prototype in brackets

| Dept. | Stock No.<br>Tube Type | Mfr.            | NET<br>EACH | Dept. | Stock No.<br>Tube Type | Mfr.                    | NET<br>EACH | Dept. | Stock No.<br>Tube Type | Mfr. | NET<br>EACH |
|-------|------------------------|-----------------|-------------|-------|------------------------|-------------------------|-------------|-------|------------------------|------|-------------|
| E1    | OA2                    | RCA             | 1.46        | E3    | EZ81†(6CA4)            | MULL                    | 1.14        | E1    | 1635                   | RCA  | 2.86        |
| E1    | OA3                    | RCA             | 1.54        | E3    | ECC82†(12AU7)          | MULL                    | 1.27        | E1    | 2050*                  | RCA  | 2.37        |
| E1    | OA4G                   | RCA             | 1.86        | E4    | ECC82†(12AU7)          | AMP                     | 1.23        | E1    | 5639*                  | RCA  | 6.55        |
| E1    | OB2                    | RCA             | 1.44        | E3    | ECC82†(6U8)            | MULL                    | 2.03        | E1    | 5651*                  | RCA  | 1.78        |
| E2    | OB3                    | RAY             | 1.65        | E3    | ECL82†                 | MULL                    | 1.62        | E2    | CK5654                 | RAY  | 3.05        |
| E1    | OC3                    | RCA             | 1.50        | E3    | ECL82MP                | MULL                    | 3.65        | E3    | 5662                   | GE   | 1.45        |
| E3    | OD3                    | RCA             | 1.44        | E1    | UCL82†(50B8)           | MULL                    | 1.62        | E1    | 5670*(2C51)            | RCA  | 3.00        |
| E3    | 1B85                   | VIC             | 8.50        | E1    | 83                     | RCA                     | 1.89        | E1    | 5670 WA*(2C51)         | RCA  | 3.95        |
| E1    | 1L4                    | RCA             | 1.37        | E3    | ECC83†(12AX7)          | MULL                    | 1.28        | E1    | 5687                   | RCA  | 4.05        |
| E1    | 1P39                   | RCA             | 2.30        | E4    | ECC83†(12AX7)          | AMP                     | 1.28        | E1    | 5696                   | RCA  | 2.05        |
| E1    | 1P40                   | RCA             | 3.75        | E3    | EL84†(6BQ5)            | MULL                    | 1.25        | E1    | 5725*(6AS6)            | RCA  | 3.80        |
| E1    | 2D21                   | RCA             | 1.29        | E3    | EL84 MP                | MULL                    | 2.84        | E1    | 5726*(6AL5)            | RCA  | 1.55        |
| E1    | 2E24                   | RCA             | 5.25        | E4    | EL84†(6BQ5)            | AMP                     | 1.30        | E3    | 5727/2D21W             | GE   | 2.90        |
| E1    | 2E26                   | RCA             | 3.83        | E3    | UL84†(45B5)            | MULL                    | 1.49        | E1    | 5751*(12AX7)           | RCA  | 2.95        |
| E1    | 2X2A                   | RCA             | 3.10        | E3    | UL84MP                 | MULL                    | 3.38        | E1    | 5763                   | RCA  | 2.53        |
| E1    | 3A5                    | RCA             | 2.03        | E3    | ECC85†(6AQ8)           | MULL                    | 1.41        | E1    | 5814A*(12AU7)          | RCA  | 3.35        |
| E1    | 3B28                   | RCA             | 6.00        | E3    | EF85†(6BY7)            | MULL                    | 1.89        | E1    | 5823                   | RCA  | 1.75        |
| E1    | 3KP1                   | RCA             | 19.50       | E3    | EF86                   | (Amperex) Use Type 6267 |             | E2    | CK5879                 | RAY  | 1.75        |
| E3    | 3-400Z                 | EIM             | 52.50       | E4    | EF86†(6267)            | MULL                    | 1.38        | E1    | 5881†(6L6)             | RCA  | 3.39        |
| E3    | 3-1000Z                | EIM             | 132.00      | E4    | EL86†(6CW5)            | MULL                    | 1.43        | E3    | 5881MP                 | TUNG | 7.85        |
| E1    | 4-65A                  | RCA             | 25.00       | E3    | UF86                   | MULL                    | 1.76        | E1    | 5896*                  | RCA  | 4.45        |
| E3    | 4-125A                 | RCA             | 36.00       | E4    | ECC88†(6DJ8)           | AMP                     | 1.89        | E1    | 5899*                  | RCA  | 6.55        |
| E3    | 4-250A                 | EIM             | 46.50       | E3    | KT88†                  | GEN                     | 5.95        | E1    | 5902*                  | RCA  | 5.75        |
| E3    | 4-400A                 | EIM             | 48.00       | E3    | KT88 MP†               | GEN                     | 13.65       | E1    | 5905*(6AQ5)            | RCA  | 3.93        |
| E23   | 4-1000A                | EIM             | 132.00      | E3    | EBF89†(6DC8)           | MULL                    | 1.76        | E1    | 6026                   | RCA  | 2.40        |
| E3    | 4CX250B/7203           | EIM             | 39.00       | E3    | EF89†                  | MULL                    | 1.65        | E1    | 6072*(12AY7)           | RCA  | 3.90        |
| E3    | 4CX300A                | EIM             | 55.00       | E3    | ECC90†(6C4)            | MULL                    | 1.94        | E1    | 6073*(OA2)             | RCA  | 3.00        |
| E3    | 4CX1000A               | EIM             | 156.00      | E3    | EK90†(6BE6)            | MULL                    | 1.22        | E1    | 6074*(OB2)             | RCA  | 3.45        |
| E3    | RK 4D32                | RAY             | 32.76       | E3    | EL90†(6AQ5)            | MULL                    | 1.12        | E3    | 6087*(5Y3GT)           | GE   | 5.75        |
| E1    | 4E27/8001              | RCA             | 40.00       | E3    | EZ90†(6X4)             | MULL                    | .87         | E1    | 6111*                  | RCA  | 5.45        |
| E1    | 4E27A/5-125B           | RCA             | 40.00       | E3    | EB91†(6AL5)            | MULL                    | .95         | E1    | 6112*                  | RCA  | 5.45        |
| E1    | 4X250B                 | EIM             | 39.35       | E3    | ECC91†(6J6)            | MULL                    | 1.43        | E1    | 6136*(6AU6)            | RCA  | 2.75        |
| E23   | 4X500A                 | EIM             | 128.50      | E3    | EF93†(6BA6)            | MULL                    | 1.08        | E1    | 6146                   | RCA  | 5.00        |
| E1    | 5BP1A                  | RCA             | 23.30       | E3    | EF94†(6AU6)            | MULL                    | 1.08        | E1    | 6155/4-125A            | RCA  | 36.00       |
| E23   | 5CP7A                  | RCA             | 28.60       | E3    | EL95†(6DL5)            | MULL                    | 1.29        | E1    | 6156/4-250A            | RCA  | 46.50       |
| ...   | 5R4GY                  | Use Type 5R4GYB |             | E3    | EL95MP                 | MULL                    | 2.73        | E1    | 6159                   | RCA  | 5.00        |
| E3    | 5R4GYA                 | GE              | 2.05        | E3    | 100TH                  | EIM                     | 23.50       | E1    | 6186/6AG5 WA           | RCA  | 3.85        |
| E1    | 5R4GYB                 | RCA             | 2.03        | E23   | PL172                  | PEN                     | 135.00      | E1    | 6189/12AU7 WA          | RCA  | 3.70        |
| E23   | 5UP1                   | RCA             | 12.45       | E3    | PL175A                 | PEN                     | 50.00       | E1    | 6201*(12AT7)           | RCA  | 2.95        |
| E1    | CS-10/P2               | CEC             | 52.00       | E23   | 250TH                  | EIM                     | 38.50       | E4    | 6211                   | AMP  | 2.35        |
| E1    | 6AK6                   | RCA             | 1.40        | E3    | 304TH                  | EIM                     | 64.50       | E4    | 6227                   | AMP  | 3.05        |
| E1    | 6AS6                   | RCA             | 3.43        | E3    | 304TL                  | EIM                     | 64.50       | E3    | 6265*(6BH6)            | GE   | 4.10        |
| E1    | 6AS7G                  | RCA             | 4.95        | E1    | 502A                   | RCA                     | 2.30        | E4    | 6267                   | AMP  | 1.38        |
| E1    | 6CA7†(EL34)            | AMP             | 2.90        | E3    | 572                    | UE                      | 13.50       | E1    | 6293                   | RCA  | 6.40        |
| E1    | 6J4                    | RCA             | 4.19        | E1    | 807                    | RCA                     | 3.00        | E1    | 6328                   | RCA  | 11.10       |
| E3    | 7JP1/7VP1              | SYL             | 29.00       | E1    | 809                    | RCA                     | 7.95        | E1    | 6417                   | RCA  | 2.53        |
| E3    | 7JP4                   | RCA             | 23.84       | E1    | 810                    | RCA                     | 26.95       | E3    | 6550†                  | TUNG | 4.95        |
| E3    | 12A6                   | RCA             | 2.53        | E1    | 811A                   | RCA                     | 6.90        | E3    | 6550MP                 | TUNG | 10.55       |
| E3    | GZ 32                  | MULL            | 2.54        | E1    | 812A                   | RCA                     | 6.90        | E1    | 6626 OA2 WA*(OA2)      | RCA  | 4.45        |
| E3    | EL34†(6CA7)            | MULL            | 3.16        | E1    | 813                    | RCA                     | 23.15       | E1    | 6661/6BH6              | RCA  | 1.34        |
| E3    | EL34 MP†               | MULL            | 6.86        | E1    | 815                    | RCA                     | 28.35       | E1    | 6678/6U8A              | RCA  | 1.62        |
| E3    | GZ34†(5AR4)            | MULL            | 2.27        | E1    | 816                    | RCA                     | 2.95        | E1    | 6679/12AT7             | RCA  | 1.50        |
| E3    | 35T                    | EIM             | 21.50       | E1    | 829B                   | RCA                     | 19.00       | E1    | 6680/12AU7             | RCA  | 1.22        |
| E3    | EL37†(6L6)             | MULL            | 3.40        | E1    | 832A                   | RCA                     | 15.90       | E1    | 6681/12AX7             | RCA  | 1.26        |
| E3    | EL37 MP†               | MULL            | 6.82        | E23   | 833A                   | RCA                     | 53.65       | E1    | 6883                   | RCA  | 5.00        |
| E3    | TZ40                   | TAY             | 10.20       | E1    | 837                    | RCA                     | 10.30       | E3    | 7025†                  | MULL | 1.40        |
| E2    | EFF60                  | AMP             | 7.50        | E1    | 866A                   | RCA                     | 2.90        | E1    | 7034/4X150A            | RCA  | 25.00       |
| E2    | RK61                   | RAY             | 4.20        | E3    | 866JR                  | TAY                     | 1.95        | E1    | 7035/4X150D            | RCA  | 27.90       |
| E3    | KT66†                  | GEN             | 3.50        | E1    | 872A                   | RCA                     | 10.65       | E3    | 7189†                  | MULL | 1.40        |
| E3    | DM70†(1M3)             | MULL            | 1.05        | E1    | 884                    | RCA                     | 2.28        | E3    | 7189MP                 | MULL | 3.53        |
| E3    | EAB8C8†(6AK8)          | MULL            | 1.92        | E1    | 885                    | RCA                     | 2.00        | E1    | 7212                   | MULL | 6.75        |
| E3    | EBF80†(6N8)            | MULL            | 1.67        | E1    | 921                    | RCA                     | 3.50        | E3    | 7247                   | MULL | 1.55        |
| E3    | ECF80†(6BL8)           | MULL            | 2.06        | E1    | 927                    | RCA                     | 3.80        | E1    | 7271                   | RCA  | 25.25       |
| E3    | EF80†(6X6)             | MULL            | 1.68        | E1    | 931VA                  | RCA                     | 11.75       | E1    | 7412                   | RCA  | 2.10        |
| E4    | EM80†(6BR5)            | AMP             | 1.23        | E1    | 991                    | RCA                     | .87         | E1    | 7467                   | RCA  | 8.75        |
| E3    | EZ80†(6V4)             | MULL            | .81         | E1    | 1614†                  | RCA                     | 3.77        | E1    | 7536                   | RCA  | 2.10        |
| E3    | ECC81†(12AT7)          | AMP             | 1.53        | E1    | 1620†(6J7)             | RCA                     | 6.99        | E1    | 7551                   | RCA  | 3.50        |
| E4    | ECC81†(12AT7)          | AMP             | 1.53        | E1    | 1621†(6F6)             | RCA                     | 2.60        | E1    | 7558                   | RCA  | 3.50        |
| E3    | ECM81†(6AJ8)           | MULL            | 1.83        | E1    | 1622†(6L6)             | RCA                     | 3.45        |       |                        |      |             |
| E3    | EM81†(6DA5)            | MULL            | 1.41        | E1    | 1625                   | RCA                     | 4.75        |       |                        |      |             |



# RCA Silverama Picture Tubes



## USE ALLIED'S CREDIT FUND PLAN NO MONEY DOWN!

Get the picture tube you need right now—Use Allied's Credit Fund Plan, the most liberal plan in electronics. Minimum order is only \$20.00, with no money down! See back section of catalog for full details.

For razor-sharp viewing, choose your replacement tube from RCA's famous "Silverama" premium-quality line. Dependable "Silverama" tubes feature aluminized screens except types with \* (asterisk). Where substitutions are indicated (for original types no longer being manufactured), substitution is directly interchangeable. See left, below table, for color tubes. When ordering give Dept. and Tube Type No.

## ALL TUBES GUARANTEED FOR ONE YEAR

| Stock No.       | Wt., Lbs. | NET EACH    |
|-----------------|-----------|-------------|
| Dept. Tube Type |           |             |
| AU3 8DP4*       | 4         | 25.67       |
| AU3 10BP4A*     | 13        | 24.85       |
| AU3 10HP4A      | 13        | 27.14       |
| AU3 12KP4A      | 17        | 27.79       |
| AU3 12LP4A*     | 17        | 27.79       |
| AU3 14ATP4      | 12        | 25.14       |
| AU3 14BP4       | .....     | Use 14BP4   |
| AU3 14CP4       | .....     | Use 14BP4   |
| AU3 14EP4*      | 14        | 25.15       |
| AU3 14HP4*      | 14        | 27.77       |
| AU3 14QP4A      | 10        | 25.15       |
| AU3 14RP4A      | .....     | Use 14RP4A  |
| AU3 14SP4       | 12        | 26.46       |
| AU3 14WP4       | 12        | 26.46       |
| AU3 14ZP4       | .....     | Use 14WP4   |
| AU3 16AP4A*     | 17        | 40.04       |
| AU3 16BP4A      | 23        | 29.50       |
| AU3 16CP4B*     | 16        | 39.52       |
| AU3 16KP4A      | .....     | Use 16KP4A  |
| AU3 16LP4A      | .....     | Use 16LP4A  |
| AU3 16MP4A*     | 25        | 29.40       |
| AU3 16NP4A      | .....     | Use 16NP4A  |
| AU3 16OP4A      | 21        | 26.46       |
| AU3 16PP4*      | 21        | 26.46       |
| AU3 16WP4A*     | 21        | 29.40       |
| AU3 16ZP4       | .....     | Use 16LP4A  |
| AU3 17ATP4      | .....     | Use 17ATP4A |
| AU3 17ATP4A     | .....     | Use 17ATP4A |
| AU3 17AVP4A     | .....     | Use 17AVP4A |
| AU3 17AVP4A     | 17        | 26.17       |
| AU3 17BP4A      | 17        | 26.17       |
| AU3 17BP4A      | 21        | 25.48       |
| AU3 17BRP4      | .....     | Use 17BRP4  |
| AU3 17BP4A      | 14        | 29.79       |
| AU3 17BP4A      | 14        | 29.13       |
| AU3 17CAP4      | .....     | Use 17BP4A  |
| AU3 17CDP4A     | 14        | 37.17       |
| AU3 17CFP4      | 17        | 26.17       |
| AU3 17CKP4      | .....     | Use 17BP4A  |
| AU3 17CP4*      | 16        | 34.15       |
| AU3 17CP4*      | 17        | 34.15       |
| AU3 17DP4A      | 13        | 35.47       |
| AU3 17DKP4      | 14        | 29.79       |
| AU3 17DLP4      | .....     | Use 17DKP4  |
| AU3 17DSF4      | 13        | 29.13       |
| AU3 17DP4A      | .....     | Use 17DP4A  |
| AU3 17DXP4      | 14        | 29.13       |
| AU3 17GP4*      | 16        | 40.97       |
| AU3 17HP4       | .....     | Use 17HP4B  |

| Stock No.       | Wt., Lbs. | NET EACH    |
|-----------------|-----------|-------------|
| Dept. Tube Type |           |             |
| AU3 17HP4B      | 23        | 25.48       |
| AU3 17IP4A      | .....     | Use 17BP4B  |
| AU3 17LP4A      | .....     | Use 17BP4B  |
| AU3 17LP4A      | 23        | 24.52       |
| AU3 17QP4A      | .....     | Use 17QP4A  |
| AU3 17QP4A      | 23        | 25.17       |
| AU3 17RP4A      | .....     | Use 17HP4B  |
| AU3 17RP4A      | .....     | Use 17HP4B  |
| AU3 17TP4*      | 42        | 42.00       |
| AU3 17UP4       | 16        | Use 17QP4A  |
| AU3 17VP4       | .....     | Use 17LP4A  |
| AU3 17VP4B      | .....     | Use 17LP4A  |
| AU3 17VP4A      | .....     | Use 17QP4A  |
| AU3 19AP4*      | 24        | 41.16       |
| AU3 19AP4B*     | 24        | 42.28       |
| AU3 19AP4A      | 19        | 32.90       |
| AU3 19AXP4      | 20        | 32.90       |
| AU3 19XP4       | 24        | 32.90       |
| AU3 20CP4A      | .....     | Use 20DP4C  |
| AU3 20CP4A      | .....     | Use 20DP4C  |
| AU3 20DP4A      | 29        | 32.01       |
| AU3 20HP4A      | .....     | Use 20HP4A  |
| AU3 20HP4A      | 29        | 32.01       |
| AU3 20LP4A      | .....     | Use 20HP4A  |
| AU3 20MP4A      | .....     | Use 20HP4A  |
| AU3 21ACP4A     | .....     | Use 21ACP4A |
| AU3 21ALP4A     | .....     | Use 21ALP4A |
| AU3 21ALP4B     | .....     | Use 21BP4A  |
| AU3 21AMP4A     | 27        | 29.98       |
| AU3 21AP4*      | 25        | 47.55       |
| AU3 21ATP4      | .....     | Use 21CBP4A |
| AU3 21ATP4A     | .....     | Use 21CBP4A |
| AU3 21AUP4      | .....     | Use 21AVP4B |
| AU3 21AUP4A     | .....     | Use 21AVP4B |
| AU3 21AUP4B     | .....     | Use 21AVP4B |
| AU3 21AVP4      | .....     | Use 21AVP4B |
| AU3 21AVP4B     | 33        | 29.98       |
| AU3 21AWP4      | 33        | 29.98       |
| AU3 21BSP4      | .....     | Use 21AMP4A |
| AU3 21BTP4      | .....     | Use 21CBP4A |
| AU3 21CBP4      | .....     | Use 21CBP4A |
| AU3 21CBP4A     | 33        | 29.98       |
| AU3 21CEP4      | 28        | 32.42       |
| AU3 21CEP4A     | .....     | Use 21CEP4  |
| AU3 21CMP4A     | 20        | 32.42       |
| AU3 21CPQ4      | .....     | Use 21CBP4A |
| AU3 21CWP4      | .....     | Use 21CBP4A |

| Stock No.       | Wt., Lbs. | NET EACH    |
|-----------------|-----------|-------------|
| Dept. Tube Type |           |             |
| AU3 21CXPA      | .....     | Use 21BP4A  |
| AU3 21CXPA      | .....     | Use 21BP4A  |
| AU3 21DAP4      | .....     | Use 21DEP4A |
| AU3 21DEP4A     | .....     | Use 21DEP4A |
| AU3 21DEP4A     | 26        | 32.42       |
| AU3 21DFP4      | 33        | 40.98       |
| AU3 21DLP4A     | 30        | 29.98       |
| AU3 21DQPA      | .....     | Use 21DP4A  |
| AU3 21DSP4      | 34        | 29.98       |
| AU3 21EAP4      | 25        | 41.28       |
| AU3 21EMP4      | 23        | 41.27       |
| AU3 21EP4A      | .....     | Use 21EP4B  |
| AU3 21EP4B      | 34        | 30.90       |
| AU3 21EQPA      | 29        | 32.42       |
| AU3 21FP4A      | .....     | Use 21FP4C  |
| AU3 21FP4C      | 34        | 30.90       |
| AU3 21MP4*      | 25        | 49.45       |
| AU3 21WP4       | .....     | Use 21WP4A  |
| AU3 21WP4A      | 33        | 32.42       |
| AU3 21XP4A      | 33        | 32.42       |
| AU3 21YP4A      | .....     | Use 21YP4A  |
| AU3 21YP4A      | 33        | 29.33       |
| AU3 21ZP4B      | .....     | Use 21ZP4B  |
| AU3 21ZP4B      | 33        | 29.98       |
| AU3 23AWP4      | 36        | 48.79       |
| AU3 23BJP4      | 35        | 48.79       |
| AU3 23BKP4      | 45        | 55.27       |
| AU3 23BLP4      | 45        | 53.58       |
| AU3 23CP4A      | 41        | 52.27       |
| AU3 23EP4       | 41        | 52.27       |
| AU3 23GP4       | .....     | Use 23GP4   |
| AU3 23HP4       | .....     | Use 23CP4   |
| AU3 23MP4       | 41        | 45.51       |
| AU3 23NP4       | .....     | Use 23NP4   |
| AU3 23YP4       | 45        | 52.27       |
| AU3 24ADP4      | .....     | Use 24CP4A  |
| AU3 24ALP4      | 43        | 43.16       |
| AU3 24ALP4      | 37        | 47.28       |
| AU3 24ATP4      | 39        | 56.09       |
| AU3 24ATP4      | 39        | 43.16       |
| AU3 24BP4A      | 34        | 60.35       |
| AU3 24CP4A      | 39        | 43.16       |
| AU3 24DP4A      | .....     | Use 24CP4A  |
| AU3 24TP4       | .....     | Use 24CP4A  |
| AU3 24VP4A      | .....     | Use 24CP4A  |
| AU3 24VP4       | .....     | Use 24CP4A  |
| AU3 27EP4       | 62        | 81.63       |
| AU3 27MP4*      | 42        | 91.96       |
| AU3 27RP4       | 62        | 81.63       |

## RCA (FULL COLOR) PICTURE TUBES

| Stock No.       | Wt., Lbs. | NET EACH     |
|-----------------|-----------|--------------|
| Dept. Tube Type |           |              |
| AU3 21AXP22     | .....     | Use 21AXP22A |
| AU3 21AXP22A    | 38        | 106.46       |
| AU3 21CVP22A    | 45        | 104.94       |
| AU3 21FBP22     | 45        | 111.47       |

## TOP VALUES IN TV PICTURE TUBES

### LOWEST PRICED FACTORY REBUILTS

AS LOW AS \$1097

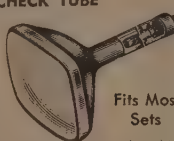
Remarkable savings are yours on these rebuilt TV picture tubes. All are completely new, except for glass envelope, that have been factory rebuilt by experts to give bright, clear pictures. All are guaranteed for one full year. Take advantage of these unexcelled low prices and order your replacement tube now. All have aluminized screen except types indicated by \* (asterisk). When ordering, specify Dept. No. and Tube Type No.



1 Year Guarantee

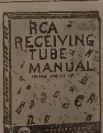
| Stock No.          | Wt., Lbs. | NET EACH | Stock No.            | Wt., Lbs. | NET EACH |
|--------------------|-----------|----------|----------------------|-----------|----------|
| Dept. Tube Type    |           |          | Dept. Tube Type      |           |          |
| AU6 12LP4*         | 17        | 11.69    | AU6 21ALP4/ATP4      | 33        | 23.01    |
| AU6 14BP4/CP4/EP4* | 12        | 10.97    | AU6 21AMP4A          | 27        | 21.25    |
| AU6 14BP4A/WP4     | 12        | 15.02    | AU6 21AP4*           | 25        | 26.46    |
| AU6 16AP4A*        | 17        | 17.44    | AU6 21AUP4A/AVP4B    | 33        | 23.01    |
| AU6 16AP4B*        | 16        | 17.44    | AU6 21CBP4A          | 33        | 23.01    |
| AU6 16RP4A/KP4A    | 21        | 16.74    | AU6 21CEP4           | 28        | 23.55    |
| AU6 17AVP4A/ATP4A  | 17        | 14.25    | AU6 21DAP4/DEP4/CZP4 | 26        | 23.55    |
| AU6 17BP4A/BRP4    | 14        | 21.57    | AU6 21EP4B           | 24        | 19.45    |
| AU6 17CP4*         | 16        | 18.85    | AU6 21FP4C           | 34        | 20.29    |
| AU6 17HP4B         | 23        | 17.37    | AU6 21WP4A           | 31        | 21.51    |
| AU6 17LP4A         | 23        | 19.01    | AU6 21YP4A           | 33        | 23.14    |
| AU6 17MP4          | 24        | 5.45     | AU6 24ACP4/DP4/YP4   | 43        | 35.65    |
| AU6 19AP4B*        | 24        | 19.69    | AU6 24AMP4           | 43        | 38.02    |
| AU6 20DP4C         | 29        | 6.76     | AU6 24CP4A           | 39        | 33.90    |

**DUMONT 8" TV RECEIVER CHECK TUBE**  
extremely versatile 8" rectangular universal picture tube—a great aid in servicing. Permits testing television without using the original picture tube. Provides a positive on-the-spot substitution test for picture tubes and eliminates necessity for taking the original picture tube back to shop for servicing. Completely self-focusing. Can be used in virtually all chromatically deflected sets regardless of deflection angle. For 33, 66, 70, 90° yoke. No ion trap required. Ideal for either electrostatic or magnetic deflection. Shpg. wt., 6 lbs.  
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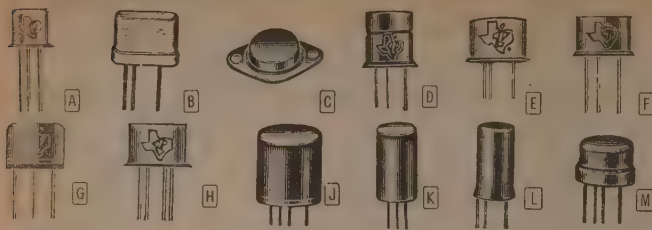
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# Germanium and Silicon Transistors



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### EXPLANATION OF COLUMN HEADINGS AND SYMBOLS

**P<sub>t</sub>** indicates collector dissipation at 25° C. in mw, except \*watts; **BV**, maximum collector voltage, except †BV<sub>ceo</sub> minimum collector to base voltage; **I<sub>c</sub>**, collector current in ma, except †ampere; **hFE** large signal DC beta, hfe, small

signal AC beta; **f<sub>ab</sub>** alpha cutoff frequency, except †f<sub>int</sub> internal cutoff frequency. All are PNP types except \*NPN. Av. shpg. wt., 2 oz. Be sure to specify manufacturer's name and Type No. when ordering.

### TEXAS INSTRUMENTS GERMANIUM TRANSISTORS

| Mfr's<br>Type | Fig. | Structure | Application  | P <sub>t</sub> Mw | BV max | I <sub>c</sub> max | hFE(hfe) min  | f <sub>ab</sub> mc | NET EACH |      |
|---------------|------|-----------|--------------|-------------------|--------|--------------------|---------------|--------------------|----------|------|
| 2N173         | A    | Alloy     | Power        | 150               | -50†   | 15                 | 35            | 70                 | 6.35     |      |
| 2N185         | B    | Alloy     | Audio        | 150               | -20    | 150                | 50 (avg)      | 70                 | 1.75     |      |
| 2N238         | B    | Alloy     | Audio        | 150               | -20    | 150                | 30 (avg)      | 70                 | 1.72     |      |
| 2N250         | C    | Alloy     | Power        | 25                | -30†   | 7                  | 30 @ 0.5A     |                    | 2.40     |      |
| 2N251         | C    | Alloy     | Power        | 25                | -60†   | 7                  | 30 @ 0.5A     |                    | 2.50     |      |
| 2N277         | A    | Alloy     | Power        | 150               | -80†   | 15                 | 35            | 50                 | 3.75     |      |
| 2N278         | A    | Alloy     | Power        | 150               | -40†   | 15                 | 35            | 70                 | 5.25     |      |
| 2N291         | AJ   | Alloy     | Audio        | 300               | -25    | 200                | 49 in 1ma     | 8 kc               | 1.62     |      |
| 2N368         | B    | Alloy     | Gen. Purpose | 150               | -30    | 50                 | 19 @ 1ma      | 49                 | 1.74     |      |
| 2N369         | B    | Alloy     | Gen. Purpose | 150               | -30    | 50                 | 49 @ 1ma      | 142 1.3            | 1.99     |      |
| 2N441         | A    | Alloy     | Power        | 150               | -40†   | 15                 | 20            | 40                 | 3.10     |      |
| 2N442         | A    | Alloy     | Power        | 150               | -50†   | 15                 | 20            | 40                 | 4.45     |      |
| 2N443         | A    | Alloy     | Power        | 150               | -60†   | 15                 | 20            | 40                 | 5.50     |      |
| 2N456A        | C    | Alloy     | Power        | 50*               | -40†   | 7                  | 30 @ 5A       | 90 430kc           | 2.60     |      |
| 2N457A        | C    | Alloy     | Power        | 50*               | -60†   | 7                  | 30 @ 5A       | 90 430kc           | 3.30     |      |
| 2N458A        | C    | Alloy     | Power        | 50*               | -80†   | 7                  | 30 @ 5A       | 90 430kc           | 4.70     |      |
| 2N511         | C    | Alloy     | Power        | 80*               | -40†   | 25                 | 20 @ 10A      | 60 260kc           | 4.50     |      |
| 2N511A        | C    | Alloy     | Power        | 80*               | -60†   | 25                 | 20 @ 10A      | 60 260kc           | 5.25     |      |
| 2N511B        | C    | Alloy     | Power        | 80*               | -80†   | 25                 | 20 @ 10A      | 60 260kc           | 6.45     |      |
| 2N512         | C    | Alloy     | Power        | 80*               | -40†   | 25                 | 20 @ 15A      | 60 280kc           | 5.25     |      |
| 2N513         | C    | Alloy     | Power        | 80*               | -40†   | 25                 | 20 @ 20A      | 60 300kc           | 6.00     |      |
| 2N705         | A    | Mesa      | Switching    | 150               | -15    | 50                 | 25            | 300                | 4.80     |      |
| 2N711         | D    | Mesa      | Switching    | 150               | -12    | 50                 | 20            | 300                | 1.80     |      |
| 2N1038        | E    | Alloy     | Power        | 20*               | -40†   | 3                  | 20 @ 1A       | 60 8kc             | 2.85     |      |
| 2N1039        | E    | Alloy     | Power        | 20*               | -60†   | 3                  | 20 @ 1A       | 60 8kc             | 3.75     |      |
| 2N1040        | E    | Alloy     | Power        | 20*               | -80†   | 3                  | 20 @ 1A       | 60 8kc             | 1.25     |      |
| 2N1099        | A    | Alloy     | Power        | 150               | -60†   | 15                 | 35            | 70                 | 10.50    |      |
| 2N1107        | B    | Diffuse   | RF, IF       | 30                | -16    | -5                 | 34db @ 455 kc | 40                 | 2.70     |      |
| 2N1108        | B    | Diffuse   | RF, IF       | 30                | -16    | -5                 | 33db @ 455 kc | 35                 | 2.16     |      |
| 2N1109        | B    | Diffuse   | RF, IF       | 30                | -16    | -5                 | 20db @ 455 kc | 30                 | 1.89     |      |
| 2N1110        | B    | Diffuse   | RF, IF       | 30                | -16    | -5                 | 29db @ 455 kc | 35                 | 2.16     |      |
| 2N1111        | B    | Diffuse   | RF, IF       | 30                | -20    | -5                 | 25db @ 455 kc | 35                 | 2.16     |      |
| 2N1111A       | B    | Diffuse   | RF, IF       | 30                | -20    | -5                 | 25db @ 455 kc | 35                 | 2.16     |      |
| 2N1111B       | B    | Diffuse   | RF, IF       | 30                | -27    | -5                 | 25db @ 455 kc | 35                 | 2.16     |      |
| 2N1143        | E    | Mesa      | VHF          | 750               | -25    | 100                | 8 db @ 100 mc | 40                 | 9.85     |      |
| 2N1273        | G    | Alloy     | Audio        | 150               | -15    | 150                | 30            | 150                | 2        | 1.72 |
| 2N1274        | G    | Alloy     | Audio        | 150               | -25    | 150                | 30            | 150                | 2        | 1.69 |
| 2N1302        | F    | Alloy     | Computer     | 150               | 25     | 300                | 20            | 50 typ 4.5         | 1.84     |      |
| 2N1303        | F    | Alloy     | Computer     | 150               | 30     | 300                | 20            | 50 typ 4.5         | 1.84     |      |
| 2N1304        | F    | Alloy     | Computer     | 150               | 25     | 300                | 40            | 70 typ 8           | 1.00     |      |
| 2N1305        | F    | Alloy     | Computer     | 150               | -30    | 300                | 40            | 70 typ 8           | 1.00     |      |
| 2N1306        | F    | Alloy     | Computer     | 150               | 25     | 300                | 60            | 100 typ 12         | 1.59     |      |
| 2N1307        | F    | Alloy     | Computer     | 150               | -30    | 300                | 60            | 100 typ 12         | 1.59     |      |
| 2N1308        | F    | Alloy     | Computer     | 150               | 25     | 300                | 80            | 150 typ 20         | 2.84     |      |
| 2N1309        | F    | Alloy     | Computer     | 150               | -30    | 300                | 80            | 150 typ 20         | 2.84     |      |
| 2N1370        | G    | Alloy     | Audio        | 150               | -25    | 150                | 30            | 150                | 2        | 1.72 |
| 2N1371        | G    | Alloy     | Audio        | 150               | -45    | 150                | 30            | 150                | 2        | 1.14 |
| 2N1372        | G    | Alloy     | Gen. Purpose | 250               | -25    | 200                | 30            | 95 1.5             | 1.82     |      |
| 2N1373        | G    | Alloy     | Gen. Purpose | 250               | -45    | 200                | 30            | 95 1.5             | 1.20     |      |
| 2N1374        | G    | Alloy     | Gen. Purpose | 250               | -25    | 200                | 30            | 150                | 2        | 1.02 |
| 2N1375        | G    | Alloy     | Gen. Purpose | 250               | -45    | 200                | 50            | 150                | 2        | 1.39 |
| 2N1376        | G    | Alloy     | Gen. Purpose | 250               | -25    | 200                | 30            | 150                | 2        | 1.02 |
| 2N1377        | G    | Alloy     | Gen. Purpose | 250               | -45    | 200                | 75            | 150                | 2        | 1.50 |
| 2N1378        | G    | Alloy     | Gen. Purpose | 250               | -12    | 200                | 95            | 300                | 3        | 1.29 |
| 2N1379        | G    | Alloy     | Gen. Purpose | 250               | -25    | 200                | 95            | 300                | 3        | 1.44 |
| 2N1380        | G    | Alloy     | Gen. Purpose | 250               | -12    | 200                | 30            | 300                | 2        | 1.67 |
| 2N1381        | G    | Alloy     | Gen. Purpose | 250               | -25    | 200                | 30            | 300                | 2        | 1.72 |
| 2N1382        | G    | Alloy     | Power        | 200               | 25     | 200                | 50            | 150                | 2        | 1.02 |
| 2N1383        | G    | Alloy     | Power        | 200               | -25    | 200                | 30            | 150                | 1.5      | 1.92 |
| 2N1399        | H    | Mesa      | Mixer        | 35                | 30     | 5                  | 1.4           | 3.3                | 8.25     |      |
| 2N1401        | H    | Mesa      | TV-IF, Osc.  | 35                | 30     | 5                  | 1.2           | 2.9                | 4.74     |      |
| 2N1980        | A    | Alloy     | Power        | 150               | -30    | 15                 | 20            | 100                | 4.50     |      |
| 2N1981        | A    | Alloy     | Power        | 150               | -40    | 15                 | 50            | 100                | 5.60     |      |
| 2N1982        | A    | Alloy     | Power        | 150               | -50    | 15                 | 50            | 100                | 7.90     |      |

### RCA GERMANIUM TRANSISTORS

| Mfr's Type | Fig. | Application                           | P <sub>t</sub> Mw | BV max | I <sub>c</sub> max | f <sub>ab</sub> mc | Structure | NET EACH |
|------------|------|---------------------------------------|-------------------|--------|--------------------|--------------------|-----------|----------|
| 2N104      | L    | Audio                                 | 150               | -30    | -50                |                    | AJ        | 1.8      |
| 2N109      | L    | Audio                                 | 150               | -25    | -70                | 0.7                | AJ        | 1.2      |
| 2N139      | L    | IF Amplifier                          | 80                | -16    | -15                | 6.8                | AJ        | 1.4      |
| 2N140      | L    | Converter                             | 150               | -16    | -15                | 10                 | AJ        | 1.5      |
| 2N176      | C    | AF Amplifier                          | 50                | -10    | -2                 | 0.9                | AJ        | 1.5      |
| 2N215      | K    | Same as 2N104 but has flexible leads. | 10*               | -40    | -3†                | 0.9                | AJ        | 1.7      |
| 2N217      | K    | Same as 2N109 but has flexible leads. | 10*               | -40    | -3†                | 0.9                | AJ        | 1.4      |
| 2N218      | K    | Same as 2N139 but has flexible leads. | 10*               | -40    | -3†                | 0.9                | AJ        | 1.4      |
| 2N219      | K    | Same as 2N140 but has flexible leads. | 10*               | -40    | -3†                | 0.9                | AJ        | 1.5      |
| 2N220      | K    | Same as 2N175 but has flexible leads. | 10*               | -40    | -3†                | 0.9                | AJ        | 1.3      |
| 2N270      | C    | AF Amplifier                          | 250               | -25    | -150               | 0.8                | AJ        | 1.4      |
| 2N301      | C    | AF Amplifier                          | 11*               | -40    | -3†                | 0.9                | AJ        | 1.9      |
| 2N301A     | C    | AF Amplifier                          | 11*               | -60    | -3†                | 0.9                | AJ        | 4.50     |
| 2N351      | C    | AF Amplifier                          | 10*               | -40    | -3†                | 0.9                | AJ        | 2.0      |
| 2N371      | J    | RF Oscillator                         | 80                | -24    | -10                | 30                 | Drift     | 1.4      |
| 2N372      | J    | RF Mixer                              | 80                | -24    | -10                | 30                 | Drift     | 1.40     |
| 2N376      | C    | AF Amplifier                          | 10*               | -40    | -3†                | 0.9                | AJ        | 2.1      |
| 2N405      | L    | AF Driver                             | 150               | -20    | -35                | 0.8                | AJ        | 1.6      |
| 2N406      | K    | Same as 2N405 but has flexible leads. | 150               | -20    | -35                | 0.8                | AJ        | 1.6      |
| 2N407      | L    | AF Amplifier                          | 150               | -10    | -70                | 10                 | AJ        | 1.7      |
| 2N408      | K    | Same as 2N407 but has flexible leads. | 150               | -10    | -70                | 10                 | AJ        | 1.7      |
| 2N409      | L    | IF Amplifier                          | 80                | -13    | -15                | 6.8                | AJ        | 1.8      |
| 2N410      | K    | Same as 2N409 but has flexible leads. | 80                | -13    | -15                | 6.8                | AJ        | 1.8      |
| 2N411      | L    | Converter                             | 80                | -13    | -15                | 10                 | AJ        | 1.8      |
| 2N412      | K    | Same as 2N411 but has flexible leads. | 80                | -13    | -15                | 10                 | AJ        | 1.8      |
| 2N591      | K    | AF Driver                             | 50                | -32    | -40                | 0.7                | AJ        | 1.7      |
| 2N592      | K    | AF Amplifier                          | 100               | 25     | 100                | 0.2                | AJ        | 1.8      |
| 2N649      | K    | AF Amplifier                          | 100               | 20     | 100                | 0.2                | AJ        | 1.8      |
| 2N1010     | K    | Low-Noise AF                          | 20                | 10     | 2                  | 0.2                | AJ        | 2.8      |
| 2N1177     | J    | FM RF                                 | 80                | -30    | -10                | 140                | Drift     | 1.4      |
| 2N1178     | J    | FM RF                                 | 80                | -30    | -10                | 140                | Drift     | 1.4      |
| 2N1180     | J    | FM RF Mixer                           | 80                | -30    | -10                | 140                | Drift     | 1.4      |
| 2N1225     | M    | VHF Amplifier                         | 120               | -40    | -10                | 30                 | AJ        | 2.0      |
| 2N1226     | M    | RF Amplifier                          | 120               | -40    | -10                | 30                 | AJ        | 2.0      |
| 2N1226     | M    | RF Amplifier                          | 120               | -60    | -10                | 30                 | AJ        | 3.0      |
| 2N1301     | M    | Switching                             | 150               | -13    | -100               | 40                 | Mesa      | 2.30     |
| 2N1301     | M    | Switching                             | 150               | -13    | -100               | 60                 | Mesa      | 2.72     |
| 2N1425     | J    | IF Amplifier                          | 80                | -24    | -10                | 30                 | Drift     | 1.8      |
| 2N1426     | J    | Converter                             | 80                | -24    | -10                | 30                 | Drift     | 1.8      |
| 2N1524     | L    | Auto Radio                            | 80                | -24    | -10                | 33                 | AJ        | 1.8      |
| 2N1525     | L    | Auto Radio                            | 80                | -24    | -10                | 33                 | AJ        | 1.8      |
| 2N1526     | L    | Auto Radio                            | 80                | -24    | -10                | 33                 | AJ        | 1.8      |
| 2N1527     | K    | Auto Radio                            | 80                | -24    | -10                | 33                 | AJ        | 1.8      |
| 2N1631     | L    | RF Amplifier                          | 80                | -34    | -10                | 45                 | AJ        | 1.20     |
| 2N1632     | L    | RF Amplifier                          | 80                | -34    | -10                | 45                 | AJ        | 1.20     |
| 2N1633     | L    | IF Amplifier                          | 80                | -34    | -10                | 40                 | AJ        | 1.20     |
| 2N1634     | K    | IF Amplifier                          | 80                | -34    | -10                | 40                 | AJ        | 1.20     |
| 2N1635     | L    | Converter                             | 80                | -34    | -10                | 45                 | AJ        | 1.20     |
| 2N1636     | K    | Converter                             | 80                | -34    | -10                | 45                 | AJ        | 1.20     |
| 2N1637     | K    | Auto Radio                            | 80                | -34    | -10                | 45                 | AJ        | 1.20     |
| 2N1638     | K    | Auto Radio                            | 80                | -34    | -10                | 45                 | AJ        | 1.20     |
| 2N1639     | K    | Auto Radio                            | 80                | -34    | -10                | 45                 | AJ        | 1.20     |
| 2N1905     | K    | Audio                                 | .....             | -60    | 101                | 075                | Drift     | 4.16     |
| 2N1906     | K    | Audio                                 | .....             | -100   | 101                | 075                | Drift     | 6.60     |

### NEW TEXAS INSTRUMENTS SILICON TRANSISTOR

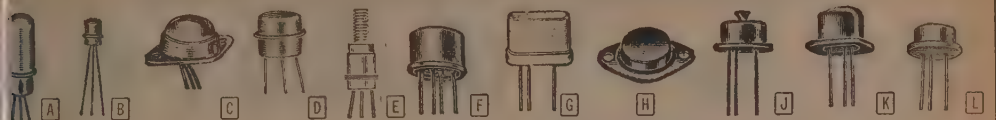
A new line of rugged silicon transistors at the price of germaniums. Offer very high reliability, excellent temperature stability and low leakage. Operate at temperatures to +125°C. Ic ratings shown are for 100°C. \*Indicates AC beta (current gain).

### TEXAS INSTRUMENTS SILICON TRANSISTORS

| Mfr's Type | Fig. | Structure | Application     | P <sub>t</sub> Mw | BV max | I <sub>c</sub> max | hFE(hfe) min | f <sub>ab</sub> mc | NET EACH |       |
|------------|------|-----------|-----------------|-------------------|--------|--------------------|--------------|--------------------|----------|-------|
| 2N1586     | B    | GJ        | Small-Sig. Amp. | 150               | 15†    | 25                 | 9            | 27                 | 4        | 6.20  |
| 2N1587     | B    | GJ        | Small-Sig. Amp. | 150               | 30†    | 25                 | 9            | 27                 | 4        | 7.15  |
| 2N1588     | B    | GJ        | Small-Sig. Amp. | 150               | 60†    | 25                 | 9            | 27                 | 4        | 8.05  |
| 2N1589     | B    | GJ        | Small-Sig. Amp. | 150               | 15†    | 25                 | 25           | 75                 | 6        | 6.95  |
| 2N1590     | B    | GJ        | Small-Sig. Amp. | 150               | 30†    | 25                 | 25           | 75                 | 6        | 8.10  |
| 2N1591     | B    | GJ        | Small-Sig. Amp. | 150               | 60†    | 25                 | 25           | 75                 | 6        | 9.15  |
| 2N1592     | B    | GJ        | Small-Sig. Amp. | 150               | 15†    | 25                 | 70           | 210                | 7        | 7.75  |
| 2N1593     | B    | GJ        | Small-Sig. Amp. | 150               | 30†    | 25                 | 70           | 210                | 7        | 9.05  |
| 2N1594     | B    | GJ        | Small-Sig. Amp. | 150               | 60†    | 25                 | 70           | 210                | 7        | 10.30 |



## MAKE ALLIED YOUR HEADQUARTERS FOR SEMICONDUCTORS



### EXPLANATION OF ABBREVIATIONS AND COLUMN HEADINGS

Abbreviations: All transistors are germanium, except where Si appears; silicon; AJ, alloy junction; DB, double base; G, junction; column heading: surface barrier; \* indicates NPN; others are PNP. Column heading: BV<sub>CEO</sub>, coll.-base breakdown voltage, open input; BV<sub>CE</sub>, collector breakdown voltage, shorted input; BV<sub>EB</sub>, emitter-base breakdown voltage, open input; BV<sub>EB</sub>, emitter-base breakdown voltage, shorted input. All ratings are at 25° C., except where otherwise noted.

#### GENERAL ELECTRIC



A selection of high-dependability germanium transistors, manufactured to stringent standards. Av. shpg. wt., 2 oz.

| Mfr's Type | Fig. | P <sub>t</sub> (Mw) | BV <sub>CEO</sub> (V) | f <sub>β</sub> (Mc) | Application | S   | NET EACH |
|------------|------|---------------------|-----------------------|---------------------|-------------|-----|----------|
| 43         | F    | 240                 | 45                    | 1.3                 | AF Amp.     | AJ  | 4.15     |
| 43A        | F    | 240                 | 45                    | 1.3                 | AF Amp.     | AJ  | 4.15     |
| 70         | F    | 240                 | 45                    | 1.3                 | AF Amp.     | AJ  | 2.95     |
| 78         | F    | 65                  | 15                    | 9.0                 | RF-IF Amp.  | *GJ | 2.50     |
| 107        | F    | 50                  | 12                    | 0.6                 | Gen. Purp.  | AJ  | .55      |
| 123        | J    | 150                 | 20                    | 8.0                 | Switching   | AJ  | 3.65     |
| 169A       | F    | 75                  | 30                    | 9.0                 | Switching   | *GJ | 5.10     |
| 170        | K    | 65                  | 25                    | 9.0                 | IF Amp.     | AJ  | 2.40     |
| 187A       | F    | 200                 | 25                    | 1.0                 | AF Amp.     | *GJ | .75      |
| 188A       | F    | 200                 | 25                    | 1.2                 | AF Amp.     | AJ  | 1.64     |
| 190        | F    | 75                  | 25                    | 1.0                 | AF Amp.     | AJ  | .75      |
| 191        | F    | 75                  | 25                    | 1.2                 | AF Amp.     | AJ  | .83      |
| 241A       | F    | 200                 | 25                    | 1.3                 | AF Amp.     | AJ  | 1.57     |
| 292        | J    | 65                  | 15                    | 5.0                 | AF Amp.     | *GJ | .75      |
| 293        | K    | 65                  | 15                    | 8.0                 | AF Amp.     | *GJ | .83      |
| 319        | F    | 225                 | 20                    | 2.0                 | AF Amp.     | AJ  | 1.56     |
| 320        | F    | 225                 | 20                    | 2.5                 | AF Amp.     | AJ  | 1.44     |
| 322        | F    | 140                 | 16                    | 0.0                 | AF Amp.     | AJ  | .75      |
| 324        | F    | 140                 | 16                    | 3.0                 | AF Amp.     | AJ  | .99      |
| 335        | F    | 200                 | 30                    | 4.5                 | Switching   | AJ  | .93      |
| 336        | F    | 200                 | 30                    | 8.0                 | Switching   | AJ  | 1.35     |
| 337        | F    | 200                 | 30                    | 12.0                | Switching   | AJ  | 2.67     |
| 404A       | F    | 120                 | 25                    | 8.0                 | Switching   | AJ  | .90      |
| 448        | J    | 65                  | 15                    | 8.0                 | RF Amp.     | AJ  | .83      |
| 450        | J    | 150                 | 20                    | 10.0                | RF Amp.     | AJ  | 2.10     |
| 508        | F    | 140                 | 16                    | 3.0                 | AF Amp.     | AJ  | 1.15     |
| 524A       | F    | 225                 | 45                    | 2.0                 | AF Amp.     | AJ  | 2.60     |
| 525        | F    | 225                 | 45                    | 2.5                 | AF Amp.     | AJ  | 2.85     |
| 526        | F    | 225                 | 45                    | 3.0                 | AF Amp.     | AJ  | 2.90     |
| 527        | F    | 225                 | 45                    | 3.3                 | AF Amp.     | AJ  | 3.35     |
| 534        | F    | 150                 | 20                    | 8.0                 | Switching   | *AJ | 1.08     |
| 534A       | F    | 150                 | 20                    | 12.0                | Switching   | *AJ | 1.92     |
| 535        | F    | 150                 | 20                    | 12.0                | Switching   | *AJ | 1.92     |
| 535A       | F    | 150                 | 25                    | 12.5                | Switching   | *AJ | 1.92     |
| 536A       | F    | 150                 | 25                    | 17.0                | Switching   | *AJ | 3.26     |
| 1056       | F    | 240                 | 70                    | 1.0                 | Switching   | AJ  | 3.10     |
| 1057       | F    | 240                 | 45                    | 1.3                 | Switching   | AJ  | 5.25     |
| 1086       | J    | 65                  | 9                     | 8.0                 | Oscillator  | *GJ | .83      |
| 1098       | F    | 140                 | 160                   | 2.5                 | AF Amp.     | AJ  | .60      |
| 437        | F    | 30                  | 7                     | 90.0                | RF Amp.     | *GJ | 9.20     |

#### RAYTHEON



A assortment of quality germanium transistors by Raytheon. All types are manufactured by the fusion-alloy process. Av. wt., 2 oz.

| Mfr's Type | Fig. | P <sub>t</sub> (Mw) | V <sub>CB</sub> (V) | I <sub>C</sub> (Ma) | Application  | S  | NET EACH |
|------------|------|---------------------|---------------------|---------------------|--------------|----|----------|
| K721       | F    | 180                 | 20                  | 10                  | AF Amp.      | AJ | 2.40     |
| K722       | F    | 180                 | 22                  | 10                  | AF Amp.      | AJ | .90      |
| K768       | G    | 150                 | 15                  | 100                 | Converter    | AJ | 1.90     |
| N365       | H    | 8.5W                | 30                  | 3A                  | AF Pwr. Amp. | AJ | 2.83     |
| N362       | F    | 168                 | 25                  | 400                 | AF Amp.      | AJ | .83      |
| N363       | F    | 168                 | 32                  | 400                 | AF Driver    | AJ | 1.72     |
| N414       | F    | 150                 | 30                  | 200                 | IF Amp.      | AJ | .96      |
| N416       | F    | 150                 | 30                  | 200                 | RF Amp.      | AJ | 1.80     |
| N422       | F    | 150                 | 35                  | 100                 | AF Amp.      | AJ | .90      |
| N464       | F    | 150                 | 40                  | 100                 | AF Amp.      | AJ | 1.65     |
| N465       | F    | 168                 | 40                  | 400                 | AF Amp.      | AJ | 1.65     |
| N466       | F    | 150                 | 35                  | 100                 | AF Amp.      | AJ | 1.80     |
| N467       | F    | 150                 | 35                  | 100                 | AF Amp.      | AJ | 2.25     |
| N632       | F    | 168                 | 30                  | 24                  | AF Amp.      | AJ | .72      |

#### TRANSISTOR BOOKS

INTERNATIONAL TRANSISTOR SUBSTITUTION GUIDE-BOOK, by Keats A. Pullen, Jr. (Rider). Lists over 4500 direct substitutions between transistors of Amer., Can., Japanese, Dutch, French, Italian or German manufacture. 56 pages. 5/4x8 1/2". \$1.47

TRANSISTOR THEORY AND CIRCUITS MADE SIMPLE, by Arvey Pollack. AMECO. An extremely concise, complete, simply-presented discussion of transistor theory and circuit operation. Includes 19 fully tested circuits for construction. 124 pages. 6x9". \$1.20

UNDERSTANDING TRANSISTORS, by Milton S. Kiver (Allied radio). Excellent treatment of transistor theory and basic circuits. Includes a section of operation-tested circuits. 64 pages. 6x9". \$1.35

#### PHILCO



A selection of high-quality entertainment and communication-type transistors. All are carefully made to meet exacting requirements. \* @45° C., † @40° C., § @50° C. Av. shpg. wt., 2 oz.

T-2163 Universal Replacement Transistor. Use in RF, mixer, IF, osc., conv. sections of 3 to 9-v. radios. PNP; micro-alloy diffused. V<sub>CB</sub> and V<sub>CE</sub>, 12 v.; I<sub>C</sub>, 50 ma; P<sub>t</sub>, 35 mw. BV<sub>CEO</sub>, 12 v.; BV<sub>EB</sub>, 0.5 v.; I<sub>CO</sub>, 10 μa; f<sub>max</sub>, 50 mc; h<sub>FE</sub> 7 to 110. TO-9 case. 2 oz. NET. 99¢



| Mfr's Type  | Fig. | P <sub>t</sub> (Mw)     | V <sub>CB</sub> (V) | I <sub>C</sub> (Ma) | Application  | S      | NET EACH |
|-------------|------|-------------------------|---------------------|---------------------|--------------|--------|----------|
| 2N128       | A    | 25                      | 10                  | 5                   | IF, RF       | SB     | 6.30     |
| 2N207       | B    | 50                      | 12                  | 20                  | AF Amp.      | AJ     | 1.95     |
| 2N207A      | B    | 50                      | 12                  | 20                  | AF Amp.      | AJ     | 2.10     |
| 2N207B      | B    | 50                      | 12                  | 20                  | AF Amp.      | AJ     | 2.25     |
| 2N223       | B    | 250                     | 18                  | 50                  | AF Amp.      | AJ     | 1.08     |
| 2N224       | D    | 250                     | 25                  | 150                 | AF Amp.      | AJ     | 1.10     |
| 2N225       | B    | Matched pair of 2N224's |                     |                     |              |        | 2.20     |
| 2N226       | B    | 250                     | 30                  | 150                 | AF Amp.      | AJ     | 1.02     |
| 2N227       | B    | Matched pair of 2N226's |                     |                     |              |        | 2.04     |
| 2N232       | A    | 9*                      | 4.5                 | 3                   | RF Amp.      | SB     | 1.05     |
| 2N344/2N310 | A    | 20†                     | 5                   | 5                   | IF, RF, Sw.  | SB     | 3.45     |
| 2N345/2N310 | A    | 20†                     | 5                   | 5                   | IF, RF       | SB     | 4.35     |
| 2N346/2N310 | A    | 20†                     | 5                   | 5                   | IF, RF       | SB     | 5.85     |
| 2N347       | A    | 12.5w                   | 60                  | 3                   | AF Pwr. Amp. | AJ     | 9.75     |
| 2N387       | C    | 12.5w                   | 80                  | 3                   | AF Pwr. Amp. | AJ     | 9.75     |
| 2N495       | A    | 150                     | 25                  | 50                  | IF, RF       | Si, AJ | 11.63    |
| 2N499A      | A    | 30                      | 30                  | 50                  | VHF Amp.     | DB     | 3.98     |
| 2N501A      | B    | 60                      | 15                  | 50                  | VHF Amp.     | DB     | 9.15     |
| 2N534       | B    | 25                      | 50                  | 25                  | AF Amp.      | AJ     | 2.35     |
| 2N535       | B    | 50                      | 20                  | 20                  | AF Amp.      | AJ     | 2.78     |
| 2N535A      | B    | 50                      | 20                  | 20                  | AF Amp.      | AJ     | 3.38     |
| 2N535B      | B    | 50                      | 20                  | 20                  | AF Amp.      | AJ     | 3.38     |
| 2N588       | A    | 30*                     | 15                  | 50                  | VHF Amp.     | DB     | 1.43     |
| 2N599       | D    | 250                     | 30                  | 400                 | Pulse Amp.   | AJ     | 3.08     |
| 2N600       | E    | 750                     | 35                  | 400                 | Pulse Amp.   | AJ     | 3.45     |
| 2N670       | B    | 300                     | 40                  | 2A                  | Pulse Amp.   | AJ     | 3.38     |
| 2N671       | B    | 1w                      | 40                  | 2A                  | Pulse Amp.   | AJ     | 4.13     |
| 2N674       | B    | 300                     | 75                  | 2A                  | Pulse Amp.   | AJ     | 4.88     |
| 2N675       | E    | 1w                      | 75                  | 2A                  | Pulse Amp.   | AJ     | 5.78     |
| 2N773       | B    | 150                     | 20                  | 100                 | Video Amp.   | Si, DB | 8.70     |
| 2N774       | B    | 150                     | 20                  | 100                 | Video Amp.   | Si, DB | 9.00     |
| 2N1123      | E    | 750                     | 45                  | 400                 | IF, RF       | AJ     | 3.30     |
| 2N1124      | B    | 300                     | 40                  | 250                 | IF, RF       | AJ     | 1.95     |
| 2N1125      | B    | 300                     | 40                  | 250                 | IF, RF       | AJ     | 2.85     |
| 2N1128      | B    | 150                     | 25                  | 150                 | AF Amp.      | AJ     | 1.43     |
| 2N1129      | B    | 150                     | 25                  | 150                 | AF Amp.      | AJ     | 1.65     |
| 2N1130      | B    | 150                     | 30                  | 150                 | AF Amp.      | AJ     | 1.43     |
| 2N1726      | D    | 60                      | 20                  | 50                  | RF Amp.      | DB     | 1.32     |
| 2N1727      | D    | 60                      | 20                  | 50                  | Conv.-Osc.   | DB     | 1.28     |
| 2N1728      | D    | 60                      | 20                  | 50                  | IF Amp.      | DB     | 1.23     |
| 2N1742      | D    | 60                      | 20                  | 50                  | VHF Amp.     | DB     | 2.93     |
| 2N1743      | D    | 60                      | 20                  | 50                  | VHF Mixer    | DB     | 2.87     |
| 2N1744      | D    | 60                      | 20                  | 50                  | VHF Osc.     | DB     | 2.79     |
| 2N1745      | D    | 60                      | 20                  | 50                  | IF Amp.      | DB     | 1.83     |
| 2N1746      | D    | 60                      | 20                  | 50                  | IF Amp.      | DB     | 1.35     |
| 2N1747      | D    | 60                      | 20                  | 50                  | IF Amp.      | DB     | 1.43     |
| 2N1748A     | D    | 60                      | 25                  | 50                  | TV Drive     | DB     | 1.79     |
| 2N1749      | D    | 75                      | 40                  | 10                  | TV Out.      | DB     | 1.61     |
| 2N1750      | A    | 15†                     | 14                  | 5                   | TV H Osc.    | SB     | 1.17     |
| 2N1752      | D    | 60                      | 12                  | 50                  | Sync. Sep.   | DB     | 2.16     |
| TO037       | B    | 40                      | 12                  | 20                  | Audio        | AJ     | .75      |
| TO040       | B    | 9*                      | 6                   | 10                  | IF Amp.      | SB     | .72      |
| T1361       | A    | 9*                      | 6                   | 10                  | IF Amp.      | SB     | 1.05     |

#### MOTOROLA TRANSISTOR MOUNTING KITS

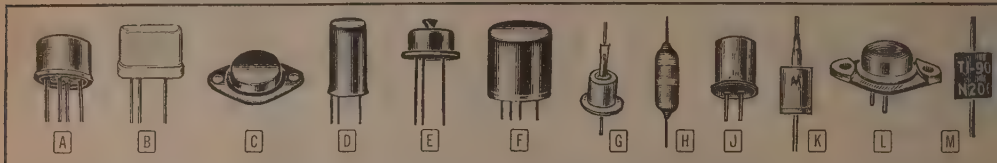


Provide all necessary hardware for correctly mounting on chassis all TO-3 industry standard power transistor types and 50 watt zener diodes. Permit mounting for polarity reversal. Units can be mounted electrically insulated from chassis while still maintaining heat transfer characteristics. V<sub>CE</sub>, 50V.

| Mfr's Type | Insulating Washer        | NET EACH |
|------------|--------------------------|----------|
| MK-10      | Teflon coated fiberglass | 1.19     |
| MK-15      | Mica                     | .23      |
| MK-20      | Anodized Aluminum        | .23      |

# Transistors and Rectifiers

MAKE ALLIED YOUR HEADQUARTERS FOR SEMICONDUCTORS



## EXPLANATION OF ABBREVIATIONS AND COLUMN HEADINGS

**Rectifiers.** BV<sub>F</sub>, min. fwd. off. voltage. GS<sub>max</sub>, max. firing gate signal. I<sub>fwd</sub>, min. fwd. current. I<sub>mr</sub>, max. reverse current. I<sub>o</sub>, max. average rectified fwd. current. I<sub>pr</sub>, max. recurrent peak current. I<sub>sur</sub>, surge current. PIV, peak inverse voltage. PIV<sub>tr</sub>, transient PIV. **Transistors.** Column Headings: BV<sub>CEO</sub>, breakdown voltage, col. to base, open in-

put. h<sub>FE</sub>, small-signal current gain. h<sub>FE</sub>, DC current gain. I<sub>o</sub>, m. coll. current. S, structure. T<sub>j</sub>, junc. temp. V<sub>CB</sub>, max. coll.-base voltage. V<sub>CE</sub>, max. col.-emitter voltage. Abbreviations: AJ, alloy junction. DR, drift; GJ, grown junction. All transistors are PNP, except \*NPN. Ratings at 25°C unless otherwise noted. Av. wt., 2 oz.

## GERMANIUM TRANSISTORS

### SYLVANIA GERMANIUM TRANSISTORS

A selection of transistors for various applications. Uniform quality: 100% of Sylvania production is pre-tested.

| Mfr's Type | Fig. | V <sub>CB</sub> (V <sub>CE</sub> ) | I <sub>o</sub> ma | Application               | S  | NET EACH |
|------------|------|------------------------------------|-------------------|---------------------------|----|----------|
| 2N 34      | B    | 40                                 | 100               | AF driver                 | AJ | 3.26     |
| 2N 35      | B    | 40                                 | 100               | AF driver                 | AJ | 1.05     |
| 2N 94      | B    | 20                                 | 50                | RF-IF amp. 3 mc switching | AJ | 1.28     |
| 2N 109A    | B    | 20                                 | 50                | RF-IF amp. 5 mc switching | AJ | 5.25     |
| 2N 109     | B    | 25                                 | 75                | Gen. purp. AF amp.        | AJ | 1.24     |
| 2N 155     | C    | 30                                 | 3A                | Gen. purp. power          | AJ | 1.88     |
| 2N 194     | B    | *18                                | 50                | High gain converter/mixer | AJ | 1.24     |
| 2N 212     | B    | 40                                 | 100               | High gain AF amp.         | AJ | 1.40     |
| 2N 213     | B    | 40                                 | 100               | High gain AF amp.         | AJ | 1.05     |
| 2N 213A    | B    | 40                                 | 100               | High gain AF driver       | AJ | 1.10     |
| 2N 214     | B    | 40                                 | 100               | High gain AF amp.         | AJ | 1.28     |
| 2N 216     | B    | *18                                | 50                | IF amp.                   | AJ | 1.58     |
| 2N 229     | B    | 6                                  | 40                | Gen. purp. AF             | AJ | 1.57     |
| 2N 233     | B    | 10                                 | 50                | Gen. purp. RF             | AJ | 1.57     |
| 2N 241A    | A    | 25                                 | 200               | AF amp.                   | AJ | 1.80     |
| 2N 242     | C    | 45                                 | 2A                | AF power amp.             | AJ | 1.88     |
| 2N 247     | C    | 35                                 | 10                | RF amp.                   | DR | 2.47     |
| 2N 250     | C    | 30                                 | 3A                | AF power amp.             | AJ | 3.56     |
| 2N 251     | C    | 15                                 | 3A                | Gen. purp. power          | AJ | 1.23     |
| 2N 256     | C    | 30                                 | 3A                | Gen. purp. power          | AJ | 1.36     |
| 2N 257     | C    | 40                                 | 2A                | AF amp.                   | AJ | 2.30     |
| 2N 270     | D    | 25                                 | 75                | AF amp.                   | AJ | 1.32     |
| 2N 333     | E    | *35                                | 3A                | AF power amp.             | AJ | 3.68     |
| 2N 366     | F    | 15                                 | 20                | AF amp.                   | QJ | 7.25     |
| 2N 306     | F    | 20                                 | 100               | AF amp.                   | AJ | 7.25     |
| 2N 377     | A    | 25                                 | 200               | Switching, computer       | AJ | 1.83     |
| 2N 383     | E    | 25                                 | 200               | AF amp.                   | AJ | 1.83     |
| 2N 517     | B    | *18                                | 10                | IF amp. 455 kc            | AJ | 1.33     |
| 2N 677     | C    | 50                                 | 15A               | High power                | AJ | 2.25     |
| 2N 677A    | C    | 60                                 | 15A               | High power                | AJ | 4.50     |
| 2N 1059    | B    | 40                                 | 100               | AF amp.                   | AJ | 90       |
| 2N 1101    | B    | 20                                 | 100               | AF amp.                   | AJ | 68       |
| 2N 1202    | B    | 40                                 | 100               | AF amp.                   | AJ | 71       |
| 2N 1264/33 | A    | 20                                 | 10                | IF amp., RF amp.          | DR | 57       |
| 2N 1264/33 | B    | 25                                 | 10                | Oscillator, AF amp.       | AJ | 57       |
| 2N 1266    | B    | 10                                 | 100               | RF amp.                   | AJ | 57       |

### MOTOROLA GERMANIUM POWER TRANSISTORS

Alloy-junction PNP transistors for audio amplification at general-purpose use. T<sub>j</sub>=100°C except, 185°C. Av. wt., 2 oz.

| Mfr's Type | Fig. | BV <sub>CEO</sub> | I <sub>o</sub> A | h <sub>FE</sub> Min. | h <sub>FE</sub> Max. | Typical h <sub>FE</sub> | NET EACH |
|------------|------|-------------------|------------------|----------------------|----------------------|-------------------------|----------|
| 2N 176     | C    | 40                | 3                | ...                  | ...                  | 45                      | 1.7      |
| 2N 178     | C    | 40                | 3                | ...                  | ...                  | 50                      | 1.7      |
| 2N 297A    | CL   | 80                | 3                | ...                  | ...                  | 45                      | 1.7      |
| 2N 331     | TA   | 30                | 3                | ...                  | ...                  | 45                      | 1.7      |
| 2N 350A    | C    | 50                | 3                | 30                   | 70                   | 30                      | 1.7      |
| 2N 351A    | C    | 50                | 4                | ...                  | ...                  | 45                      | 1.7      |
| 2N 376A    | C    | 50                | 5                | ...                  | ...                  | 40                      | 1.7      |
| 2N 464     | TA   | 45                | ...              | 14                   | ...                  | 26                      | 2.2      |
| 2N 465     | TA   | 45                | ...              | 27                   | ...                  | 45                      | 1.7      |
| 2N 466     | TA   | 35                | ...              | 56                   | ...                  | 90                      | 1.7      |
| 2N 467     | A    | 30                | 3                | 112                  | ...                  | 180                     | 2.2      |
| 2N 551     | C    | 30                | 3                | ...                  | ...                  | 30                      | 1.7      |
| 2N 555     | C    | 40                | 3                | ...                  | ...                  | 40                      | 1.7      |
| 2N 627     | C    | 40                | 10               | ...                  | 10                   | 30                      | 3.5      |
| 2N 629     | C    | 80                | 10               | ...                  | 10                   | 30                      | 6.6      |
| 2N 650     | A    | 45                | ...              | 30                   | 70                   | 49                      | 1.7      |
| 2N 651     | A    | 45                | ...              | 50                   | 120                  | 80                      | 2.2      |
| 2N 652     | A    | 45                | ...              | 100                  | 225                  | 130                     | 2.2      |
| 2N 653     | A    | 30                | ...              | 30                   | 70                   | 49                      | 1.7      |
| 2N 654     | A    | 30                | ...              | 50                   | 125                  | 80                      | 1.7      |
| 2N 655     | A    | 30                | ...              | 100                  | 250                  | 130                     | 1.7      |
| 2N 669     | A    | 40                | 3                | ...                  | ...                  | 100                     | 1.7      |
| 2N 1191    | TA   | 40                | ...              | 30                   | 70                   | 40                      | 1.7      |
| 2N 1192    | TA   | 40                | ...              | 50                   | 125                  | 75                      | 1.7      |
| 2N 1193    | TA   | 40                | ...              | 100                  | 250                  | 160                     | 1.7      |
| 2N 1529    | L    | 40                | 5                | ...                  | 20                   | 40                      | 2.2      |
| 2N 1530    | L    | 60                | 5                | ...                  | 20                   | 40                      | 2.2      |
| 2N 1531    | L    | 80                | 5                | ...                  | 20                   | 40                      | 3.5      |
| 2N 1532    | L    | 100               | 5                | ...                  | 20                   | 40                      | 3.5      |
| 2N 1533    | L    | 120               | 5                | ...                  | 20                   | 40                      | 15.5     |

**POWER TRANSISTOR HANDBOOK.** By Motorola. Discusses transistor theory, design characteristics, and applications. Many diagrams. 205 pages. Size, 5 1/2 x 8 1/2". 39 K 294. Postpaid in U.S.A. 2.00

## SILICON RECTIFIERS

### GENERAL-PURPOSE SILICON RECTIFIERS

An assortment of popular types of rectifiers. Fig. G units utilize top-hat design. Fig. K units are flangeless for easy mgt.; have axial leads. I<sub>pr</sub> @ 25°C. 1N538-40, 2.5 amps. 1N1095-96 and 1N2610-15, 6 amps; 1N1563A-66A, 10 amps. 1N645-49 are high-conductance types; I<sub>fwd</sub> @ 25°C; 400 ma @ 1 v. indicates @ 100°C.

| Mfr's Type | Fig. | Mfr. | PIV | I <sub>o</sub> (Ma) @ 25°C | I <sub>mr</sub> (Ma) @ 25°C | I <sub>sur</sub> (A) @ 25°C | NET EACH  |
|------------|------|------|-----|----------------------------|-----------------------------|-----------------------------|-----------|
| 1N 536     | G    | GE   | 50  | 750                        | ...                         | .4                          | 15 .66    |
| 1N 537     | G    | GE   | 100 | 750                        | ...                         | .4                          | 15 .74    |
| 1N 538     | G    | TI   | 200 | 750                        | ...                         | .5                          | ...       |
| 1N 539     | G    | TI   | 400 | 750                        | ...                         | .5                          | ...       |
| 1N 540     | G    | RCA  | 400 | 750                        | 250                         | .5                          | 15 1.07   |
| 1N 547     | G    | RCA  | 600 | 750                        | 250                         | .5                          | 15 1.65   |
| 1N 645     | H    | TI   | 225 | 400                        | ...                         | 2.8u                        | .015 2.88 |
| 1N 646     | H    | TI   | 400 | 400                        | ...                         | 2.8u                        | .015 3.67 |
| 1N 647     | H    | TI   | 400 | 400                        | ...                         | 2.8u                        | .02 4.65  |
| 1N 648     | H    | TI   | 500 | 400                        | ...                         | 2.8u                        | .02 5.55  |
| 1N 649     | H    | TI   | 600 | 400                        | ...                         | 2.8u                        | .025 6.45 |
| 1N 1095    | G    | TI   | 500 | 750                        | 250                         | .5                          | 1.24      |
| 1N 1096    | G    | TI   | 600 | 750                        | 250                         | .5                          | 1.55      |
| 1N 1563A   | J    | Mot  | 100 | 1500                       | 250                         | ...                         | 70 1.70   |
| 1N 1563A   | J    | Mot  | 400 | 1500                       | 250                         | ...                         | 70 2.80   |
| 1N 1692    | G    | GE   | 100 | ...                        | 600                         | ...                         | 5 20 .62  |
| 1N 1693    | G    | GE   | 200 | ...                        | 600                         | ...                         | 5 20 .72  |
| 1N 1694    | G    | GE   | 300 | ...                        | 600                         | ...                         | 5 20 .90  |
| 1N 1695    | G    | GE   | 400 | ...                        | 600                         | ...                         | 5 20 1.01 |
| 1N 1696    | G    | GE   | 500 | ...                        | 600                         | ...                         | 5 20 1.01 |
| 1N 1697    | G    | GE   | 600 | ...                        | 600                         | ...                         | 5 20 1.61 |
| 1N 1763    | G    | RCA  | 400 | ...                        | 1500                        | ...                         | 1 1.11    |
| 1N 1764    | G    | RCA  | 500 | ...                        | 1500                        | ...                         | 1 1.11    |
| 1N 2610    | K    | Mot  | 100 | 750                        | 250                         | .01                         | 30 1.05   |
| 1N 2611    | K    | Mot  | 200 | 750                        | 250                         | .01                         | 30 1.18   |
| 1N 2612    | K    | Mot  | 300 | 750                        | 250                         | .01                         | 30 1.55   |
| 1N 2613    | K    | Mot  | 400 | 750                        | 250                         | .01                         | 30 1.70   |
| 1N 2614    | K    | Mot  | 500 | 750                        | 250                         | .01                         | 30 1.70   |
| 1N 2615    | K    | Mot  | 600 | 750                        | 250                         | .01                         | 30 2.30   |

### TEXAS INSTRUMENTS ECONOMY SILICON RECTIFIERS

**Epoxy Types.** Body length, 0.375" maximum; body diameter, 0.22" maximum. Leads are 18" (minimum) in length, and 0.032" x 0.001" in diameter. DC forward drop, 1.2 v. at 500 ma (at 25°C). Av. shg. wt., 2 oz.

| Mfr's Type | Fig. | PIV | I <sub>o</sub> @ 25°C | I <sub>pr</sub> @ 25°C | I <sub>mr</sub> @ 25°C | NET EACH |
|------------|------|-----|-----------------------|------------------------|------------------------|----------|
| 1N 2069    | M    | 200 | 750                   | 6                      | 10 @ 200               | 1.10     |
| 1N 2070    | M    | 400 | 750                   | 6                      | 10 @ 400               | 1.10     |
| 1N 2071    | M    | 600 | 750                   | 6                      | 10 @ 600               | 1.10     |

**Top-Hat Types.** Body-plus-anode-terminal length, 0.625" minimum; flange diameter, 0.380" maximum. Lead lengths (minimum): anode, 1.25"; cathode, 1.00". Lead diameter, 0.030". Av. shg. wt., 2 oz.

| Mfr's Type | Fig. | PIV | I <sub>o</sub> @ 25°C | I <sub>pr</sub> @ 25°C | I <sub>mr</sub> @ 25°C | NET EACH |
|------------|------|-----|-----------------------|------------------------|------------------------|----------|
| U212       | G    | 200 | 750                   | 6                      | 10 @ 200               | 1.45     |
| U213       | G    | 400 | 750                   | 6                      | 10 @ 400               | 1.45     |
| U214       | G    | 600 | 750                   | 6                      | 10 @ 600               | 1.45     |

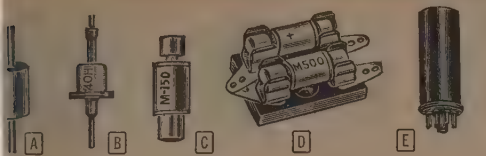
### GENERAL ELECTRIC SILICON CONTROL RECTIFIER

A three-junction device for power control and power switching applications. Essentially an open-circuit with negative and to-cathode voltage when below the BV<sub>F</sub> and when no gate signal is applied. When the BV<sub>F</sub> is exceeded, or an appropriate gate signal is applied, the control rectifier rapidly switches a conducting state. Ideal for use in DC power control, inverters, replacement of relays, etc. Av. shg. wt., 2 oz.

| Mfr's Type   | PIV, V <sub>tr</sub> | I <sub>o</sub> (A) | GS <sub>max</sub> (A) | I <sub>sur</sub> (A) | NET EACH |
|--------------|----------------------|--------------------|-----------------------|----------------------|----------|
| 2N 770A/CIOU | 25                   | 35                 | 47                    | 6                    | 7.50     |
| 2N 771A/CIOF | 50                   | 75                 | 47                    | 6                    | 9.15     |
| 2N 772A/CIOA | 100                  | 150                | 47                    | 6                    | 12.50    |
| 2N 773A/CIOG | 150                  | 225                | 47                    | 6                    | 14.70    |
| 2N 774A/CIOB | 200                  | 300                | 47                    | 6                    | 16.70    |
| 2N 775A/CIOH | 250                  | 350                | 47                    | 6                    | 30.00    |



## ALLIED-HEADQUARTERS FOR SEMICONDUCTORS



### SARKES-TARZIAN RECTIFIERS

#### AXIAL LEAD MINIATURE SILICON RECTIFIERS

ny, highly efficient units featuring low forward voltage drop and high reverse resistance. \*Max. DC current rating at 100°C, except 185°C specify Manufacturer and Type No. on order. Av. shpg. wt., 3 oz.

| fr's<br>/pc<br>/4 | JEDEC<br>No. | Fig. | PIV | RMS<br>V <sub>115</sub> | *Max.<br>DC<br>amps | Size          | NET<br>EACH |
|-------------------|--------------|------|-----|-------------------------|---------------------|---------------|-------------|
| 4                 | 1N2483       | A    | 400 | 280                     | .75                 | 1/4x3/8" dia. | 1.34        |
| 4                 | 1N2484       | A    | 400 | 280                     | .20†                | 1/4x3/8" dia. | .89         |
| 6                 | 1N2484       | A    | 600 | 420                     | .75                 | 1/4x3/8" dia. | 1.39        |
| 4                 | 1N2487       | B    | 400 | 280                     | .75                 | 3/4x3/8" dia. | 1.19        |
| 4                 | 1N2489       | B    | 600 | 420                     | .75                 | 3/4x3/8" dia. | 1.68        |

#### MINIATURIZED SILICON RECTIFIERS

Type M500. Clip-in miniature rectifier for TV replacement and miniaturization uses. Lower voltage drop (only 2 v.) gives increased B+ for drive and sweep, more anode voltage on CRT. Max. ratings: AC purp. 130 v.; peak inverse, 400 v.; DC current, 500 ma; peak current, 0.0 ma. Specify Manufacturer and Type No. on order. Wt., 4 oz. .49, EACH. .140 1-9, NET EACH. .148

Type M150. Similar to above, but has max. DC rating of 150 ma. Replaces Models 65 and 75 on next page. AC input, 130 v.; PIV, 360 v. nrg. wt., 4 oz. .85¢ 1-9, NET EACH. .89¢

M500 Conversion Kit. For TV sets or equipment using full-wave vacuum tube rectifiers. Allows conversion to silicon rectifiers for high-efficiency, fewer breakdowns and easier future replacement. Rectifiers p in or out like fuses. Includes 2—M500 silicon rectifiers, dual mtg. p, hardware, 3/4x1/2x1/4", Shpg. wt., 6 oz. .280 A 699, NET .95¢

M150 Replacement Kit. Consists of an M150 silicon rectifier (described above), one clip and one 10-ohm, 1-watt resistor. Wt., 4 oz. .24¢ A 629, NET .95¢

A 669. Single Mounting Clip. 3/4x1/2x1/4", Wt., 2 oz. NET .12¢

A 670. Dual Mounting Clip. 3/4x1/2x1/4", Shpg. wt., 4 oz. NET .24¢

#### TUBE-REPLACEMENT RECTIFIERS

Silicon rectifier plug-ins for direct replacement of vacuum tubes. Feature long life, cool operation and high efficiency. Max. ambient mp., 100°C. Max. rms voltage 1100 v. for all types except S-5019, 1950; S-5033, 3200 v.; S-5130, 7400 v.; S-5343, 5000 v. Sizes (above chassis): S-5011A, S-5017, S-5018, 2 1/2x1 1/4" dia.; S-5019, S-5033, 2 1/2x1 3/4" dia.; S-5130, 4 1/2x1 1/2" dia.; S-5007, 1 1/2x1 1/2" dia.; S-5251, 1 1/2x1 1/4" dia.; S-5343, 3 1/2x1 1/2" dia.; S-5347, 2 3/4" dia. Av. shpg. wt., 4 oz. Specify Manufacturer and Type No. on order.

| Mfr's<br>Type | JEDEC<br>No. | PIV    | DC<br>Ma | Tubes Replaced                         | NET<br>EACH |
|---------------|--------------|--------|----------|----------------------------------------|-------------|
| 5011A         | 1N1150       | 1600   | 750      | 80, 82, 83, 83V, 523                   | 12.87       |
| 5017          | 1N1237       | 1600   | 750      | 02A, 54A, 57A, 6A4X5, 6X5              | 12.87       |
| 5018          | 1N1238       | 1600   | 750      | 5A0A, 5A2A, 50A, 5W4, 5931, 6087, 6106 | 12.87       |
| 5019          | 1N1239       | 2800   | 500      | 58A                                    | 20.25       |
| 5033          | 1N1262       | 4500   | 250      | 6A4U, 6A4X, 6BL4, 6U4, 6W4, 12AX4      | 20.25       |
| 5130          |              | 10,400 | 300      | 866, 866A, 3828                        | 28.86       |
| 5207          | 1N2490       | 1600   | 500      | 6X4, 6063, 6202                        | 12.87       |
| 5251          | 1N2389       | 1600   | 600      | 5A0A, 5A4A, 5A2A, 57A, 50A, 5W4, 5Y3   | 20.24       |
| 5343          |              | 7000   | 300      | 816, 836, 3828, 866 (reduced voltage)  | 20.24       |
| 5347          |              | 1600   | 500      | 86W4, 12BW4                            | 12.87       |

### INTERNATIONAL RECTIFIER SILICON RECTIFIERS

Quality, hermetically sealed, industrial type silicon rectifier units. All are designed for stud mounting. Ruggedly constructed, they provide a life-time of reliable service. Units are highly suitable for use in battery chargers, power supplies, industrial control units, and other electrical equipment requiring dependable rectification. Operate efficiently at ambient temperatures of up to 190°C. Current ratings of all units are measured at 100°C PIV (peak inverse voltage) and RMS output, as shown in table below, are maximum values expressed in volts. Av. shpg. wt., 3 oz.

| Type No. | DC Amps | PIV | RMS Input | NET EACH |
|----------|---------|-----|-----------|----------|
| 1N1341   | 6       | 50  | 35        | 2.75     |
| 1N1342   | 6       | 100 | 70        | 4.50     |
| 1N1344   | 12      | 50  | 35        | 3.00     |
| 1N1199   | 12      | 50  | 35        | 3.00     |
| 1N1200   | 12      | 100 | 70        | 3.60     |
| 1N1202   | 12      | 200 | 140       | 5.15     |

### G.E. GERMANIUM TV RECTIFIERS

Germanium TV power rectifiers for low-voltage power supplies. Feature compact size, increased output, long life and low forward voltage drop. Extremely low voltage drop. Types 1N1008 and 1N1016 have single hole mounting; Type 1N1024 requires three mounting holes. All half-wave except \*dual rectifier—rated for voltage-doubler applications. Shpg. wt., 3 oz.

| Mfr's Type | RMS Volts | PIV | Max. DC Ma | Voltage Drop | NET EA. |
|------------|-----------|-----|------------|--------------|---------|
| 1N1008     | 130       | 380 | 400        | .3           | 1.50    |
| 1N1016*    | 130       | 380 | 400        | .3           | 3.00    |
| 1N1024     | 130       | 380 | 400        | 0.15         | 1.50    |



### DIODES FOR VARIED APPLICATIONS

#### ABBREVIATIONS OF MANUFACTURER'S NAMES

GE—General Electric, Hu—Hughes, Ray—Raytheon, RCA—Radio Corporation of America, Syl—Sylvania, MLC—Microwave Associates. PIV is max. inv. wkv. voltage. I<sub>wd</sub> is min. fwd. current (ma) at +1 v. \*Rating at 50°C. I<sub>mr</sub> is max. rev. current, I<sub>p</sub> is peak point current.

| Mfr's Type | Fig. | Mfr. | PIV                                  | Max. Inv. Ma. at 25°C | I <sub>wd</sub> | Description                      | NET EACH |
|------------|------|------|--------------------------------------|-----------------------|-----------------|----------------------------------|----------|
| 1N21B      | J    | Mic  |                                      |                       |                 | 3000-mc silicon microwave mixer  | .68      |
| 1N21C      | J    | Mic  |                                      |                       |                 | 3000-mc silicon microwave mixer  | 1.02     |
| 1N23A      | J    | Mic  |                                      |                       |                 | 10000-mc silicon microwave mixer | 1.02     |
| 1N34A      | F    | Ray  | 75                                   | .035 @ 10V            | 5               | Ge; Gen. purp.                   | .35      |
| 1N34A      | H    | Syl  | 60                                   | .30 @ 10V             | 5               | Ge; Gen. purp.                   | .43      |
| 1N35       | H    | Syl  | 50                                   | .01 @ 10V             | 7               | Ge; Matched Pair                 | 1.68     |
| 1N38B      | H    | Syl  | 100                                  | .5 @ 100V             | 4               | Ge; Gen. purp.                   | .80      |
| 1N39       | H    | Syl  | 85                                   | .833 @ 50V            | 4               | Ge; Gen. purp.                   | .33      |
| 1N54A      | H    | Syl  | 50                                   | .007 @ 10V            | 5               | Ge; High back res.               | .80      |
| 1N55A      | H    | Syl  | 150                                  | .5 @ 150V             | 4               | Ge; Gen. purp.                   | 1.70     |
| 1N56A      | H    | Syl  | 50                                   | .3 @ 30V              | 15              | Ge; High cond.                   | .80      |
| 1N58A      | H    | Syl  | 120                                  | .6 @ 100V             | 4               | Ge; High cond.                   | .85      |
| 1N63       | H    | Syl  | 25                                   | .03 @ 15V             | 4               | Ge; Vid. det. gen. purp.         | .32      |
| 1N64       | H    | Syl  | 100                                  | .05 @ 50V             | 4               | Ge; High back res.               | 1.20     |
| 1N63       | G    | Syl  | 25                                   | Noise, 14 db max.     | 4               | Ge; Vid. det.                    | .43      |
| 1N65       | H    | Syl  | 70                                   | .2 @ 50V              | 2.5             | Ge; Gen. purp.                   | .53      |
| 1N66A      | F    | Ray  | 60                                   | .8 @ 50V              | 5               | Ge; Gen. purp.                   | .40      |
| 1N67A      | G    | Hu   | 80                                   | .05 @ 50V             | 4               | Ge; High back res.               | .64      |
| 1N67A      | G    | Hu   | 80                                   | .05 @ 50V             | 4               | Ge; High back res.               | .64      |
| 1N68A      | G    | Hu   | 100                                  | .625 @ 100V           | 3               | Ge; Gen. purp.                   | 1.00     |
| 1N69A      | H    | Syl  | 60                                   | .5 @ 50V              | 5               | Ge; Gen. purp.                   | .39      |
| 1N82       | H    | Syl  | 5                                    | Noise, 16 db max.     | 5               | Ge; UHF mixer (to 1000 mc)       | .95      |
| 1N82A      | H    | Syl  | 5                                    | Noise, 14 db max.     | 5               | Ge; UHF mixer (to 1000 mc)       | 1.05     |
| 1N89A      | G    | Hu   | 60                                   | .5 @ 50V              | 5               | Ge; Gen. purp.                   | .38      |
| 1N91       | G    | GE   | 100                                  | *2.7 @ 100V           | 150             | Ge; Gen. purp.                   | .85      |
| 1N92       | K    | GE   | 200                                  | *1.9 @ 200V           | 100             | Ge; Gen. purp.                   | 1.95     |
| 1N93       | K    | GE   | 300                                  | *1.2 @ 300V           | 75              | Ge; Gen. purp.                   | 2.70     |
| 1N95       | G    | Hu   | 60                                   | .5 @ 50V              | 10              | Ge; Gen. purp.                   | .52      |
| 1N96       | G    | Hu   | 60                                   | .5 @ 50V              | 20              | Ge; Gen. purp.                   | .52      |
| 1N99       | G    | Hu   | 80                                   | .05 @ 50V             | 10              | Ge; High back res.               | .88      |
| 1N116      | G    | Hu   | 60                                   | .100 @ 50V            | 5               | Ge; High back res.               | .56      |
| 1N117      | G    | Hu   | 60                                   | .100 @ 50V            | 5               | Ge; High back res.               | .61      |
| 1N126A     | G    | Hu   | 60                                   | .850 @ 50V            | 50              | Ge; Gen. purp.                   | .45      |
| 1N191      | G    | Hu   | Computer—recovers to 50K in 0.5 usec |                       |                 |                                  | .58      |
| 1N198      | G    | Hu   | 80                                   | .25 @ 50V             | 5               | Ge; Gen. purp.                   | .51      |
| 1N273      | G    | Hu   | 35                                   | .02 @ 20V             | 100             | Ge; Quick recovery               | .68      |
| 1N279      | G    | Hu   | 35                                   | .2 @ 20V              | 100             | Ge; Quick recovery               | .71      |
| 1N284A     | G    | Ray  | 60                                   | .8 @ 50V              | 5               | Ge; Gen. purp.                   | .52      |
| 1N295A     | G    | Ray  | 40                                   | .2 @ 10V              | 10              | Ge; Gen. purp.                   | .52      |
| 1N295      | G    | Ray  | 40                                   | .18 @ 10V             |                 | Vid. det.                        | .35      |
| 1N2326     | G    | RCA  | 1                                    | (10ma. max. @ 71°C)   |                 | Ge; Compensating                 | .50      |
| HD2155     | G    | Hu   | 60                                   | .5 @ 50V              | 50              | Ge; Gen. purp.                   | .59      |

### GENERAL ELECTRIC VAC-U-SEL DOUBLE DIODES

Miniature double diodes for TV horizontal phase detector replacement and other applications. 7/8x3/8x3/8". Shpg. wt., 2 oz.

| Type No. | I <sub>wd</sub> | I <sub>mr</sub> | Description      | Max. Case Temp. | NET EACH |
|----------|-----------------|-----------------|------------------|-----------------|----------|
| 6GC      | 1.1 @ 25V       | 4 @ 20V         | Common cathode   | 85°C            | 54c      |
| 6GD      | 1.1 @ 25V       | 4 @ 20V         | Series connected | 85°C            |          |
| 6DX1     | 1.1 @ 25V       | 4 @ 20V         | Common anode     | 85°C            |          |

### INTERNATIONAL RESISTANCE DUAL DIODES

Highly stable selenium dual diodes. Exact replacement units in many TV sets. Maximum case temperature, 85°C. Shpg. wt., 2 oz.

| Stock No. | Mfr's Type | PIV | Max. Voltage | Description      | NET EA. |
|-----------|------------|-----|--------------|------------------|---------|
| 7E752     | D4         | 47  | 33 @ 25°C    | Common cathode   | 54c     |
| 7E753     | D5         | 47  | 33 @ 25°C    | Series connected |         |
| 7E754     | D6         | 47  | 33 @ 25°C    | Common anode     |         |

### HOFFMAN ECONOMY ZENER DIODES

High-quality, low-cost zener diodes. All are rated 150 milliwatts at 25°C; derate 1 milliwatt/degree C above 25°C. Maximum operating temperature is 100°C. Shpg. wt., 2 oz.

| Mfr's Type | PIV | I <sub>mr</sub> at 25°C | I <sub>wd</sub> | Vz Min. | NET EACH |
|------------|-----|-------------------------|-----------------|---------|----------|
| HB-1       | 6.8 | .005 @ 3.5V             | 17.0            | 7.5     | 44c      |
| HB-2       | 18  | .005 @ 10V              | 5.0             | 40      |          |
| HB-3       | 36  | .010 @ 20V              | 2.7             | 40      |          |
| HB-4       | 68  | .020 @ 39V              | 0.9             | 75      |          |
| HB-5       | 150 | .040 @ 82V              | 3.0             | 170     |          |
| HB-6       | 170 | .075 @ 150V             | 1.5             | 300     |          |

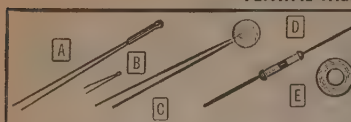
### PHILCO GERMANIUM TUNNEL DIODES

Quality germanium tunnel diodes for use in a variety of applications. Have forward voltage of 475 millivolts; peak point voltage of 55 millivolts; valley voltage of 320 millivolts; storage temperature of -65° to 100°C. Minimum peak to valley point current ratio: T1925, T1975, 8; T1976, 6. \*Indicates peak point current in milliamperes. Av. shpg. wt., 2 oz.

| Mfr's Type | *I <sub>p</sub> Ma | Neg. Resistance | Series Resist. | NET EA. |
|------------|--------------------|-----------------|----------------|---------|
| T1925      | 1.0                | -120 ohms       | 1.5 ohms       | 4.75    |
| T1975      | 1.0                | -120 ohms       | 1.5 ohms       | 5.00    |
| T1976      | 5.0                | -25 ohms        | 0.7 ohms       | 4.00    |

# Thermistors, Selenium Rectifiers and Books

## FENWAL THERMISTORS



Washer types are 3/4" dia.; have hole in center—may be mounted on a bolt with terminals between them and connected in series or parallel. Permits compact arrangement where space is limited. Disc and rod types may be used at temperatures up to 125° C.; washer types up to 150° C.; bead up to 600° F. \*Resistance ratio 0° C. : 50° C. Av. shpg. wt., 2 oz.

| Stock No. | Model  | Type | Fig.   | Style | Ohms at 25° C. | Tol. % | RR* 1-9 | 10-UP | EACH |
|-----------|--------|------|--------|-------|----------------|--------|---------|-------|------|
| 9 E 909   | GA511T | B    | Bead   |       | 100,000        | 15%    | 10:3:1  | 2.70  | 2.16 |
| 9 E 910   | GA512P | A    | Bead   |       | 100,000        | 15%    | 10:3:1  | 2.65  | 2.12 |
| 9 E 911   | GB321P | B    | Bead   |       | 2000           | 20%    | 7:3:1   | 2.65  | 2.12 |
| 10 E 907  | GB322P | B    | Probe  |       | 2000           | 20%    | 7:3:1   | 2.65  | 2.12 |
| 9 E 913   | GC321L | B    | Bead   |       | 2000           | 25%    | 5:1:1   | 3.75  | 3.00 |
| 9 E 914   | KA311L | B    | Disc   |       | 1000           | 10%    | 9:1:1   | .85   | .68  |
| 9 E 915   | LB211L | C    | Disc   |       | 100            | 10%    | 6:9:1   | .85   | .68  |
| 9 E 916   | QA511J | D    | Rod    |       | 100,000        | 10%    | 9:1:1   | 1.25  | 1.00 |
| 9 E 917   | RB311L | D    | Rod    |       | 3150           | 10%    | 7:1:1   | 1.20  | .96  |
| 9 E 918   | RB411L | D    | Rod    |       | 10,000         | 10%    | 7:1:1   | 1.25  | 1.00 |
| 9 E 919   | WB21W1 | E    | Washer |       | 100            | 10%    | 9:1:1   | 1.25  | 1.00 |
| 9 E 925   | WB11W1 | E    | Washer |       | 10             | 10%    | 6:9:1   | 1.25  | 1.00 |



**Model G-200 Experimenter's Thermistor Kit.** Handy kit containing 12 of the above thermistors (worth \$22.55) for use in circuit design, experimental work, or for familiarizing yourself with thermistor theory and operation. Each thermistor is packed with complete data including typical resistance-temperature curve, ratio of resistance at 0° C. and 50° C., dissipation constant, time constant, typical E-I curve, actual resistance at 5 specific temperatures, plus current, voltage and temperature parameters. Shpg. wt., 10 oz.

9 E 926, NET.....19.95

## FENWAL THERMISTOR COMPUTER-MANUAL COMBINATION

Includes Thermistor Manual, Computer, Curves



Complete information kit covering thermistor applications. Manual discusses theory and uses of thermistors, practical methods of solving thermistor problems; includes resistance-temperature tables and a guide containing specifications of popular thermistor types. Computer reduces lengthy computations to a single "slide-rule" setting. Set of curves includes typical E-I curves for all 12 thermistors shown above. Shpg. wt., 8 oz.

9 E 877.....No charge with your next order

## INTERNATIONAL RECTIFIER SELENIUM POWER STACKS



High current-density selenium rectifiers featuring unusually low forward drop and high inverse voltage ratings. Improved barrier layer and counter electrode alloy, assisted by "bellows spring" contact collector, plus process improvements to increase mutual adhesion of all cell materials, result in lower forward resistance and increased reverse resistance. Advanced design permits these cells to deliver approximately twice the rectified DC output per square inch of standard cells—a 100% increase at convection-cooled current densities and a 150% increase at forced-cooled current densities. For use in battery chargers, DC are welders etc. In AC input volts column below, \* indicates center-tapped with cathodes connected; all others are single phase bridge types.

| Stock No. | Mfr's Type | Mfr's Code No. | DC Output Volts | DC Output Amps | VAC Input | Size                    | Wt.    | NET   |
|-----------|------------|----------------|-----------------|----------------|-----------|-------------------------|--------|-------|
| 4 A 835   | 1J4C1      | C1CSDALD       | 14              | 1.5            | *36       | 1 1/2 x 1 1/2 x 1 1/2"  | 1 oz.  | 1.39  |
| 4 A 987   | 1J4C5      | D1CSDALD       | 14              | 4.8            | *36       | 3 3/8 x 1 1/2"          | 7 oz.  | 3.48  |
| 4 A 836   | J28B04     | A1BISDALD      | 29              | 0.4            | 36        | 1 1/2 x 1 1/2"          | 1 oz.  | 2.06  |
| 4 A 837   | J28B1      | C1BISDALD      | 29              | 1.5            | 36        | 1 1/2 x 1 1/2 x 1 1/2"  | 2 oz.  | 2.28  |
| 4 A 838   | J28B5      | D1BISDALD      | 29              | 4.8            | 36        | 3 3/8 x 1 1/2"          | 7 oz.  | 6.43  |
| 4 A 840   | J28B04     | A2B1SDBLD      | 58              | 0.4            | 72        | 1 1/2 x 1 1/2"          | 2 oz.  | 1.11  |
| 4 A 844   | 1J16B04    | A4B1SDBLD      | 116             | 0.4            | 144       | 1 1/2 x 1 1/2 x 1 1/2"  | 3 oz.  | 5.56  |
| 4 A 989   | 1J16B1     | C4B1SDBLD      | 116             | 1.5            | 144       | 1 1/2 x 1 1/2 x 3/8"    | 4 oz.  | 8.15  |
| 4 A 845   | 1J16B5     | A4B1SDBLD      | 116             | 4.8            | 144       | 3 3/8 x 3/8"            | 2 lbs. | 22.91 |
| 4 A 848   | 1J35B1     | C5B1SDBLD      | 135             | 1.5            | 180       | 1 1/2 x 1 1/2 x 4 9/16" | 4 oz.  | 9.93  |

## TRANSISTOR AND DIODE BOOKS

**FUNDAMENTALS OF SEMI-CONDUCTORS.** M.G. Scroggie (Gernsback). 160 p. Size, 5 1/2 x 8 1/2".

39 K 287. Postpaid in U.S.A.....2.95

**TRANSISTOR CIRCUIT HANDBOOK FOR THE HOBBYIST.** By Sylvia. 30 performance tested circuits, 65 p., 6x9".

39 K 276. Postpaid in U.S.A.....50c

**PERFORMANCE-TESTED TRANSISTOR CIRCUITS.** By Sylvia. Includes 36 circuits. 53 pages. Size, 6x9".

38 K 248. Postpaid in U.S.A.....35c

**TRANSISTORS AND SEMICONDUCTOR DIODES.** By RCA. Data on basic characteristics and theory. 23 pages, 8 1/4 x 11".

38 A 398. Postpaid in U.S.A.....30c

**TRANSISTOR MANUAL.** 5th Ed. By G.E. Circuits, specs. 168 pages, 5 1/2 x 8 1/2".

38 K 869. Postpaid in U.S.A.....1.00

**GERMANIUM DIODE INDUSTRIAL USES.** By Sylvia. Includes Circuits, diode installation hints, ratings. 42 pages, 6x9".

37 K 124. Postpaid in U.S.A.....35c

**ELECTRONIC SHORTCUTS FOR HOBBYISTS.** By Sylvia. Includes Build 24 devices using germanium diodes. Has 40 pages. Size, 6x9".

37 K 074. Postpaid in U.S.A.....35c



## SARKS SELENIUM STACKS

For radios, TV sets, intercoms, amplifiers, etc. Supply plate, filament and bias voltages from power line or transformer. Max. rms input voltage, 120 v. "Hot or Cold" for cool, stable operation. Max. inverse peak voltage, 380 v. Approx. internal voltage drop, 5 v. Approx. plug terminals. Av. wt., 5 oz.

| Stock No. | Type | DCma | Size                   | NET  |
|-----------|------|------|------------------------|------|
| 4 A 631   | 50   | 50   | 1 1/2 x 2 1/2 x 1 1/2" | .56  |
| 4 A 616   | 65   | 65   | 1 1/2 x 1 1/2"         | .74  |
| 4 A 617   | 75   | 75   | 1 1/2 x 1 1/2"         | .92  |
| 4 A 618   | 100  | 100  | 1 1/2 x 1 1/2 x 1 1/2" | 1.01 |
| 4 A 620   | 150  | 150  | 1 1/2 x 1 1/2 x 1 1/2" | 1.25 |
| 4 A 621   | 200  | 200  | 1 1/2 x 1 1/2 x 1 1/2" | 1.28 |
| 4 A 622   | 250  | 250  | 1 1/2 x 1 1/2 x 1 1/2" | 1.71 |
| 4 A 623   | 300  | 300  | 2 1/2 x 1 1/2"         | .66  |
| 4 A 624   | 400  | 400  | 2 1/2 x 1 1/2"         | .72  |
| 4 A 625   | 500  | 500  | 2 1/2 x 1 1/2"         | 1.31 |

## SARKS CONDENSED STACKS

Selenium stacks similar to Types 50 to 500 above, but smaller. Max. rms input, 130 v. age drop, 5 v. Max. output, 85° C. 4 oz.

|         |         |     |                        |      |
|---------|---------|-----|------------------------|------|
| 4 A 595 | 50-75   | 75  | 1 1/2 x 1 1/2 x 2 1/2" | .48  |
| 4 A 596 | 100-150 | 150 | 1 1/2 x 1 1/2"         | .74  |
| 4 A 597 | 200-250 | 250 | 1 1/2 x 1 1/2"         | 1.07 |
| 4 A 598 | 300-500 | 500 | 1 1/2 x 1 1/2 x 1 1/2" | 1.31 |

## I.T.T. RECTIFIER STACKS



### MINIATURE TYPE

An excellent selection of top quality miniaturized selenium rectifiers at unusually low prices. Types 1016 and 1017 are bridge-connected. Internal voltage drops are as follows: Type 1001—1.2 volts; Types 1016 and 1017—2.4 volts; Types 1002A, 1003A, 1004A, 1005A, 1159—1 volt; Types 1007 and 1014—4 volts.

Types 1013 and 1512 are recommended for use in battery charging. Type 1013 is excellent in charging small 2 and 6-volt batteries of the type found in photoflash equipment and portable radios. Type 1512 is ideally suited for battery charging of 6-volt auto batteries. All units listed have locking lugs. \*Tubular type (not illustrated); paper enclosed. Has 1 1/2" leads to permit easy installation. Av. shpg. wt., 5 oz.

| Stock No. | Mfr's Type | DC Ma | RMS Volts | Size                   | NET EACH |
|-----------|------------|-------|-----------|------------------------|----------|
| 4 A 666   | 1159       | 20    | 130       | 1 1/2" dia. x 3/4"     | .65      |
| 4 A 662   | 1002A      | 65    | 130       | 1 1/2 x 1 1/2"         | .71      |
| 4 A 602   | 1003A      | 130   | 130       | 1 1/2 x 1 1/2"         | .71      |
| 4 A 668   | 1001       | 75    | 20        | 1 1/2 x 1 1/2"         | 2.32     |
| 4 A 913   | 1007       | 75    | 160       | 1 1/2 x 1 1/2"         | 1.59     |
| 4 A 915   | 1014       | 100   | 160       | 1 1/2 x 1 1/2 x 1 1/2" | .79      |
| 4 A 600   | 1004A      | 100   | 130       | 1 1/2 x 1 1/2 x 1 1/2" | 1.59     |
| 4 A 603   | 1005A      | 150   | 130       | 1 1/2 x 1 1/2 x 1 1/2" | .94      |
| 4 A 666   | 1016       | 300   | 25        | 1 1/2 x 1 1/2 x 3/8"   | 1.35     |
| 4 A 660   | 1017       | 600   | 25        | 1 1/2 x 1 1/2 x 3/8"   | 1.56     |
| 4 A 604   | 1013       | 450   | 18        | 1 1/2 x 1 1/2 x 3/8"   | .73      |
| 4 A 664   | 1512       | 1800  | 25        | 2 1/2 x 2 1/2 x 3/8"   | 2.20     |

## I.T.T. HI-DENSITY TYPE RECTIFIERS

Popular, high-density type selenium rectifiers. Advanced design permits remarkably high current capacity and extremely compact size. Excellent for replacement use in radios, TV sets, high-fidelity components, etc. Ideally suited, too, for a wide variety of applications in original equipment. Eliminates installation problems where space is limited. Maximum rms input, 130 volts. Maximum peak inverse volts, 380. Internal drop, 7 volts. All have locking lugs. Individually boxed. Av. shpg. wt., 4 oz.

| Stock No. | Mfr's Type | DC Ma   | Size                   | NET EACH |
|-----------|------------|---------|------------------------|----------|
| 4 A 918   | 1234A      | 65      | 1 1/2 x 1 1/2 x 1 1/2" | .59      |
| 4 A 919   | 1235A      | 100     | 1 1/2 x 1 1/2"         | .69      |
| 4 A 677   | 1237A      | 300-500 | 1 1/2 x 1 1/2 x 1 1/2" | 1.47     |

## INTERNATIONAL RECTIFIER

### BATTERY-CHARGING STACKS

Appearance same as I.R. selenium power stacks at left. J12446 is universal replacement for fast chargers; rated 100 amp when fan cooled. Others are single plate types for trickle chargers. All are for 6 or 12 volt batteries.

| Stock No. | Mfr's Type | Max. AC Volt Inp. | DC Amps | Size       | Shpg. Wt. | NET EACH |
|-----------|------------|-------------------|---------|------------|-----------|----------|
| 4 A 748   | JD4346B    | 16.5/33           | 30-100  | 6x5x4 1/2" | 1 lb.     | 16.75    |
| 4 A 798   | JD116K     | 16.5              | 2       | 3x3x1/2"   | 2 oz.     | 1.20     |
| 4 A 799   | JD117K     | 16.5              | 3       | 4x4x1/2"   | 3 oz.     | 1.80     |
| 4 A 749   | JD241K     | 16.5              | 6       | 6x5x1/2"   | 4 oz.     | 2.46     |

## I.R. LOW-VOLTAGE STACKS



Miniature seleniums for low-voltage applications in filament supplies, stand-by, battery supplies, 2 and 6-volt battery chargers, etc. All rated at 25 v. rms max, except 04B, 1.0 v. max. \* indicates single-plate half-wave.

| Stock No. | Mfr's Type | Max DC Ma. | Min. Ohms | Size                   | NET EACH |
|-----------|------------|------------|-----------|------------------------|----------|
| 4 A 822   | 01H        | 65         | 47        | 4 3/8 x 3 1/2 x 7/8"   | .36      |
| 4 A 823   | 01H        | 100        | 22        | 1 1/2 x 1 1/2 x 7/8"   | .48      |
| 4 A 824   | 01H        | 150        | 15        | 1 1/2 x 1 1/2 x 7/8"   | .32      |
| 4 A 825   | 01H        | 250        | 5         | 1 1/2 x 1 1/2 x 7/8"   | .32      |
| 4 A 826   | 01H        | 500        | 5         | 2 1/2 x 7/8"           | .56      |
| 4 A 827   | 01H        | 100        | ...       | 4 3/8 x 3 1/2 x 7/8"   | .84      |
| 4 A 828   | 04B        | 100        | ...       | 4 3/8 x 3 1/2 x 1 1/2" | 1.56     |
| 4 A 829   | 01B        | 180        | ...       | 1 1/2 x 1 1/2"         | 1.22     |
| 4 A 830   | 01B        | 300        | ...       | 1 1/2 x 1 1/2 x 1 1/2" | 1.28     |
| 4 A 831   | 01B        | 600        | ...       | 1 1/2 x 1 1/2 x 1 1/2" | 1.46     |
| 4 A 832   | 01B        | 1200       | ...       | 2 1/2 x 1 1/2"         | 1.72     |

## RIDER RECTIFIER HANDBOOK

**METALLIC RECTIFIERS AND CRYSTAL DIODES.** By Theodore Conti. Basic data on uses in computers, missiles, radios, TV, etc. Covers construction, characteristics, troubleshooting, repair and replacement. Appendix with NEMA standard code and specifications. Illus. 164 pages, 5 1/2 x 8 1/2".

38 K 878. Postpaid in U.S.A.....3.43



# Sensing Devices and Ballasts

## Sensing Devices



### INTERNATIONAL RECTIFIER EXPERIMENTAL CELLS

silicon cells and selenium photocells for the experimenter. Used to transfer solar cells, light meters, small motors, relays, etc. Selenium have a spectral response similar to the human eye and are used extensively in light meters and other optical devices. Silicon cells have high light conversion efficiency, particularly in sunlight, and are same type as used for charging batteries in space satellites. All are molded in plastic case except \* which has mounting bracket. All are below, all are silicon cells except selenium cells. Included with cell is a 24-page Experimenter's Handbook. Av. shpg. wt., 3 oz.

| Stock No. | Mfr's Type | Fig. | Output |             | Size             | NET EACH |
|-----------|------------|------|--------|-------------|------------------|----------|
|           |            |      | Volts  | Ma          |                  |          |
| 876       | *B2M       | A    | -3.4   | 2           | 1/2x3/4"         | 1.50     |
| 877       | *B3M       | B    | -3.4   | 1 1/2-2 1/4 | 1 1/2x1 1/2x3/4" | 1.75     |
| 878       | *S1M       | B    | -3.45  | 10-16       | 1 1/2x1 1/2x3/4" | 2.25     |
| 494       | S3M        | B    | -6.85  | 10-16       | 1 1/2x1 1/2x3/4" | 3.95     |
| 495       | S5M        | B    | -6.85  | 18-25       | 1 1/2x1 1/2x3/4" | 4.95     |

### INTERNATIONAL RECTIFIER CADMIUM SULPHIDE CELL

Type CS-120M6. Variable resistor photocell. Controls door openers, burglar alarms, etc. Handles 120 v. AC or DC. Power dissipation 200 W. With 24-page experimenter's handbook. 1 1/2x1 1/2x3/4". 2.35

### INTERNATIONAL RECTIFIER SILICON SOLAR CELLS

Industrial type photocells. Have higher efficiency than selenium cells and are used principally to convert solar energy directly into electricity. Applications include operation of portable radios, battery charging, rural telephone installations; etc. All are unmounted and have 10 pin leads except \* which is mounted and has turret terminals. Av. shpg. wt., 3 oz.

| Stock No. | Mfr's Type  | Output |    | Size       | NET EACH |
|-----------|-------------|--------|----|------------|----------|
|           |             | Volts  | Ma |            |          |
| 490       | S 1020E4-PL | .4     | 18 | 2 1/2x3/4" | 2.65     |
| 491       | S 1020E6-PL | .4     | 27 | 2 1/2x3/4" | 2.95     |
| 492       | S 1020E8-PL | .4     | 36 | 2 1/2x3/4" | 3.85     |
| 493       | *S5M 1020E6 | 1.85   | 29 | 2 1/2x3/4" | 13.20    |

### TEXAS INSTRUMENT PHOTODIODE

Type 1N2175. Extremely sensitive photocell for use in lightmeters, etc. Max. bid. 50 v. Dark current @ 100  $\mu$ A @ 100°C. Light current @ 25°C. Sensitivity @ 10 v. 22.3  $\mu$ A/mw/cm<sup>2</sup>. Size, 0.6x0.082". Specify mfr. and type no. when ordering. NET.....11.50

### HYDRAPAK HUMIDITY SENSING ELEMENTS

Utilize special sensitive substances coated on a thin film to measure humidity by electronic means. Highly sensitive to water vapor. Use HA for use in grid circuits to control relays, etc. Type HA-26 for use in bridge circuit with 0-1 ma meter. Both decrease in resistance with humidity increase. Pins spaced 1/4", 3/8" long. Between 30% and 100% relative humidity. 1x1 1/2x1/2". Wt., 4 oz.

| Stock No. | Mfr's Type | Description                 | NET EACH |
|-----------|------------|-----------------------------|----------|
| E 746     | HA         | Under 100K to over 100 megs | 3.00     |
| E 747     | HA-26      | 50 ohms to 100 ohms         | 3.00     |
| E 748     | .....      | Socket for above            | .30      |

### CONSOLIDATED AC-DC RESISTANCE LINE CORDS

Insulated resistance line cords. Properly insulated resistance line cords. Used in series across 115 v. lines. 135 and 200 ohm cords can also be used for 1-lamp, and 20-watt fluorescent light units. \*For use with 3-way battery portables. All have 3-coded lined leads. Variations of 2% in resistance are permissible. Choose resistance value nearest that desired. Shpg. wt., 6 oz.

| Stock No. | Type | Ohms | EACH | Stock No. | Type   | Ohms | EACH |
|-----------|------|------|------|-----------|--------|------|------|
| T 552     | 2401 | 135  |      | 49 T 511  | 2407   | 350  |      |
| T 520     | 2402 | 160  |      | 49 T 510  | 2406A  | 390  |      |
| T 515     | 2404 | 290  | 7lc  | 49 T 525  | 2414A* | 560  | 7lc  |
| T 512     | 2405 | 330  |      |           |        |      |      |

T 580-220-110 Volt Step-Down Cord. Rated at 2 amps. Shpg. 5 oz. NET.....1.32

### "MAKE-UP-OWN" RESISTANCE CORDS

Illustrated. Resistance cords for supplying exact line cord resistance. Shpg. wt. 10", 1/2 lb.; 25", 1 lb. W 560, 30 ohms resistance per ft. W 570, 60 ohms resistance per ft. T PER FOOT.....12c  
FEET FOR.....2.40

### CLAIREX PHOTOCELLS

Efficient, low resistance crystal photocells. Max. rating 300 v. AC-DC except Types CL-504 and CL-505, 250 v. AC-DC. Av. wt., 3 oz.

|                                                                                                                                           |                                                                                                                                    |                                                                                                                                   |                                                                                                                                 |                                                                                                                                   |                                                                                                                                  |                                                                                                                         |                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| F 7 E 891, Type CL-2P. Conductance, 100 $\mu$ A @ 100 v @ 2 ft.-candle; time constant, 100 ft.-candle @ 10 ms. 1/2x3/4" dia. NET.....3.50 | F 7 E 892, Type CL-3. Cond., 320 $\mu$ A @ 100 v @ 1 ft.-candle; time constant, 100 ft.-candle @ 45 ms. 1/2x3/4" dia. NET.....3.50 | F 7 E 897, Type CL-4. Cond., 100 $\mu$ A @ 30 v @ 2 ft.-candle; time constant, 100 ft.-candle @ 45 ms. 1/2x3/4" dia. NET.....3.50 | F 7 E 758, Type CL-403. DC resistance, 133K @ 2 ft.-candle; time constant, 100 ft.-candle @ 1 1/2 ms. 1"x1/4" dia. NET.....4.00 | G 6 E 486, Type CL-504. Not illus. DC res., 1.5K @ 2 ft.-candle; time constant, 100 ft.-candle @ 3 ms. 1/2x3/4" dia. NET.....4.00 | G 6 E 487, Type CL-505. Not illus. DC res., 9K @ 2 ft.-candle; time constant, 100 ft.-candle @ 14 ms. 1/2x3/4" dia. NET.....4.00 | G 6 E 488, Type CL-602. DC res., 1 meg @ 2 ft.-candle; time constant, 100 ft.-candle @ 7 ms. 1/2x3/4" dia. NET.....4.00 | G 6 E 489, Type CL-603. DC res., 133K @ 2 ft.-candle; time constant, 100 ft.-candle @ 1 1/2 ms. 1/2x3/4" dia. NET.....4.00 |
|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|

### POLARIS "MAJ-II" PHOTOCCELL

H Resistor-type, cadmium sulphide photocell. Res., 200 ohms @ 92.9 ft. candles; 10 meg in total darkness. Max. change 0.2 meg/sec. Max. power dissipation 0.2 w @ 40°C; max. v. 110 v. AC (peak) or DC. G 78 E 711. NET.....1.99

### HOFFMAN SILICON SOLAR CELLS

J Long life, highly stable photo-voltaic devices convert light energy into electrical energy. Feature very fast response time (10 microsec. for Series EA7, 20 microsec. for 220C and 120C). Min. output current, EA7 series, measured at 1250 ft. candles @ 55°C with 1K-ohm load, 220C and 120C measured at 10,000 ft.-candle sunlight with 400 m load. Operating temp. range -65°C to +175°C. \*EA7 series have thinned 1.125" leads. †Not illustrated. Av. wt., 2 oz.

| Stock No. | Mfr's Type | Min. Output Current | Min. Power Rev. Current | Size*                   | NET EACH |
|-----------|------------|---------------------|-------------------------|-------------------------|----------|
| 4 E 654   | EA7E1      | 300 $\mu$ A         | .....                   | 5 $\mu$ A .5x.08" dia.  | 8.25     |
| 4 E 655   | EA7E3      | 250 $\mu$ A         | .....                   | 10 $\mu$ A .5x.08" dia. | 6.40     |
| 4 E 656   | EA7E5      | 200 $\mu$ A         | .....                   | 20 $\mu$ A .5x.08" dia. | 5.75     |
| 4 E 657   | †220C      | 48 ma               | 19 mw                   | .78x.38x.025"           | 15.65    |
| 7 E 759   | †120C      | 23 ma               | 9 mw                    | .78x.39x.025"           | 2.40     |

### CLAROSTAT UNIVERSAL RESISTOR TUBES

Clarostat resistor tubes for voltage-reducing applications. For replacement of all AC-DC tubes beginning with letters BK, BL, K, L and M; and corresponding numbers and letters A given below. Order tubes according to letter and numeral designation of tube being replaced. For example, to replace a BK-23-A tube, or an M-55-D tube, the Clarostat Type 23-55-A would be used, etc. Shpg. wt., 6 oz.

| Stock No. | Mfr's Type | Tube Numbers From: | Ending in Letter: | NET EACH |
|-----------|------------|--------------------|-------------------|----------|
| 9 E 853   | 23-55-A    | 23 to 55           | A, B, C, D        |          |
| 9 E 855   | 23-55-F    | 23 to 55           | F, G, H           | 1.91     |

### JFD BALLASTS

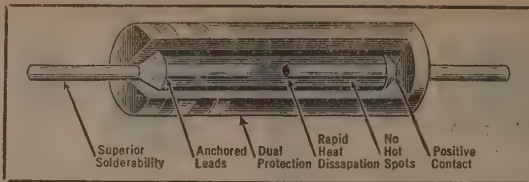
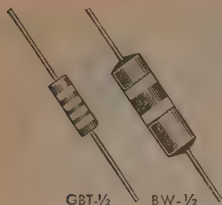
Quality TV, adjustable and step-down ballasts. Types 17A470303 and 17A485459 are keyed octal plug-in units for AC-DC TV sets. No. 9 E 886 is an 8-prong adjustable plug-in unit that replaces ballast types beginning with K, L, M, BK, BL, BM having numbers 45 through 105 and ending with letters A, B, C, D, E, F, G, H, S-1, 2 or 3. All have perforated shells for maximum dissipation and radiation of heat. Have large insulating surfaces. Av. shpg. wt., 6 oz.

| Stock No. | Type      | For      | Stock No. | Type  | For        | EACH |
|-----------|-----------|----------|-----------|-------|------------|------|
| 9 E 860   | 17A470303 | Motorola | 9 E 886   | ..... | Adjustable | 2.94 |
| 9 E 861   | 17A485459 | Motorola |           |       |            |      |

### SEMICONDUCTOR BOOKS

Sylvania Semiconductor Complement Manual. Lists by equipment and material, Sylvania semiconductor replacements. 63 pages. 39 K 567. Postpaid in U.S.A.....50c  
G. E. Controlled Rectifier Manual. Covers theory, ratings and applications of silicon rectifiers. 255 pages. 39 K 086. Postpaid in U.S.A.....1.00  
G. E. Tunnel Diode Book. Covers theory, specifications, and applications of tunnel diodes. 96 pages. 39 K 573. Postpaid in U.S.A.....1.00  
Motorola's Zener Diode & Rectifier Handbook. Covers theory, design characteristics and applications. 182 pages. 39 K 574. Postpaid in U.S.A.....2.00

# IRC Resistors



**FREE . . . . Color Code**  
Guide with purchase of  
20 or more resistors.  
Specify Stock No. 2M770.

## IRC TYPE GBT FIXED CARBON COMPOSITION RESISTORS

### GBT, SR AND BW 10% INSULATED TYPES

Type SR and GBT Fixed Composition. Exceed MIL-R-11 specifications. Withstand 50-100% overloads for short periods. EIA (RETMA) coded. Sizes: GBT- $\frac{1}{2}$ ,  $\frac{3}{4}$  x  $\frac{1}{4}$ ; GBT-1,  $\frac{1}{2}$  x  $\frac{3}{4}$ ; SR,  $\frac{1}{4}$  x  $\frac{3}{16}$ . Figure after hyphen in Type No. indicates wattage rating.

Type BW Fixed Wire-Wound (Low Power). Withstand 50% to 100% overloads with little or no resistance change. Have standard EIA (RETMA) color coding. Sizes: BW- $\frac{1}{2}$ ,  $\frac{3}{4}$  x  $\frac{1}{4}$ ; BW-1,  $1\frac{1}{4}$  x  $\frac{1}{4}$ ; BW-2,  $1\frac{1}{2}$  x  $\frac{1}{4}$ . Figure in Type No. indicates wattage rating.

### 10% EIA (RETMA) VALUES—SPECIFY RESISTANCE WANTED

| Ohms | Ohms | Ohms | Ohms | Ohms | Ohms | Ohms   | Ohms   | Ohms    | Ohms     | Ohms    | Ohms    | Ohms    | Ohms    | Ohms     |
|------|------|------|------|------|------|--------|--------|---------|----------|---------|---------|---------|---------|----------|
| 0.27 | 1.2  | 5.6  | 27   | 120  | 560  | 2700   | 12,000 | 56,000  | 0.27 meg | 1.2 meg | 5.6 meg | 27 meg  | 120 meg | 560 meg  |
| 0.33 | 1.5  | 6.8  | 33   | 150  | 680  | 3300   | 15,000 | 68,000  | 0.33 meg | 1.5 meg | 6.8 meg | 33 meg  | 150 meg | 680 meg  |
| 0.39 | 1.8  | 8.2  | 39   | 180  | 820  | 3900   | 18,000 | 82,000  | 0.39 meg | 1.8 meg | 8.2 meg | 39 meg  | 180 meg | 820 meg  |
| 0.47 | 2.2  | 10   | 47   | 220  | 1000 | 4700   | 22,000 | 100,000 | 0.47 meg | 2.2 meg | 10 meg  | 47 meg  | 220 meg | 1000 meg |
| 0.56 | 2.7  | 12   | 56   | 270  | 1200 | 5600   | 27,000 | 120,000 | 0.56 meg | 2.7 meg | 12 meg  | 56 meg  | 270 meg | 1200 meg |
| 0.68 | 3.3  | 15   | 68   | 330  | 1500 | 6800   | 33,000 | 150,000 | 0.68 meg | 3.3 meg | 15 meg  | 68 meg  | 330 meg | 1500 meg |
| 0.82 | 3.9  | 18   | 82   | 390  | 1800 | 8200   | 39,000 | 180,000 | 0.82 meg | 3.9 meg | 18 meg  | 82 meg  | 390 meg | 1800 meg |
| 1.0  | 4.7  | 22   | 100  | 470  | 2200 | 10,000 | 47,000 | 220,000 | 1.0 meg  | 4.7 meg | 22 meg  | 100 meg | 470 meg | 2200 meg |

### TYPE GBT, SR 10% FIXED COMPOSITION

\* Covers resistors in assorted values.

| Stock No. | Mfr's Type         | MIL Equiv. | Values                |
|-----------|--------------------|------------|-----------------------|
| 1 MM 000  | GBT- $\frac{1}{2}$ | RC20       | 10 $\Omega$ to 22 meg |
| 1 MM 020  | GBT-1              | RC32       | 10 $\Omega$ to 22 meg |
| 1 MM 070  | SR-2               | RC42       | 10 $\Omega$ to 22 meg |

### TYPE BW 10% FIXED WIRE-WOUND (Low Power)

\* Covers resistors in assorted values.

| Stock No. | Mfr's Type        | MIL Equiv. | Values                | NET EACH |
|-----------|-------------------|------------|-----------------------|----------|
| 1 MM 061  | BW- $\frac{1}{2}$ | RU-3       | 0.27 to 8.2 $\Omega$  | 24c      |
| 1 MM 060  | BW- $\frac{1}{2}$ | RU-3       | 10 to 820 $\Omega$    | 20c      |
| 1 MM 080  | BW-1              | RU-4       | 0.47 to 4700 $\Omega$ | 30c      |
| 1 MM 100  | BW-2              | RU-6       | 1 to 8200 $\Omega$    | 40c      |

### GBT, SR AND BW 5% INSULATED TYPES

Type GBT, SR Fixed Composition. Filament carbon 5% resistors. For use in close tolerance circuits. EIA (RETMA) color coding. Completely insulated.

Type BW Fixed Wire-Wound (Low Power). Similar in appearance to carbon resistors, but have double-width filament color band. Completely insulated.

### 5% EIA (RETMA) VALUES—SPECIFY RESISTANCE WANTED

| Ohms | Ohms | Ohms | Ohms | Ohms | Ohms | Ohms   | Ohms   | Ohms    | Ohms     | Ohms    | Ohms    | Ohms    | Ohms    | Ohms     |
|------|------|------|------|------|------|--------|--------|---------|----------|---------|---------|---------|---------|----------|
| 0.24 | 1.1  | 5.1  | 24   | 110  | 510  | 2400   | 11,000 | 51,000  | 0.24 meg | 1.1 meg | 5.1 meg | 24 meg  | 110 meg | 510 meg  |
| 0.27 | 1.2  | 5.6  | 27   | 120  | 560  | 2700   | 12,000 | 56,000  | 0.27 meg | 1.2 meg | 5.6 meg | 27 meg  | 120 meg | 560 meg  |
| 0.30 | 1.3  | 6.2  | 30   | 130  | 620  | 3000   | 13,000 | 62,000  | 0.30 meg | 1.3 meg | 6.2 meg | 30 meg  | 130 meg | 620 meg  |
| 0.33 | 1.5  | 6.8  | 33   | 150  | 680  | 3300   | 15,000 | 68,000  | 0.33 meg | 1.5 meg | 6.8 meg | 33 meg  | 150 meg | 680 meg  |
| 0.36 | 1.6  | 7.5  | 36   | 160  | 750  | 3600   | 16,000 | 75,000  | 0.36 meg | 1.6 meg | 7.5 meg | 36 meg  | 160 meg | 750 meg  |
| 0.39 | 1.8  | 8.2  | 39   | 180  | 820  | 3900   | 18,000 | 82,000  | 0.39 meg | 1.8 meg | 8.2 meg | 39 meg  | 180 meg | 820 meg  |
| 0.43 | 2.0  | 9.1  | 43   | 200  | 910  | 4300   | 20,000 | 91,000  | 0.43 meg | 2.0 meg | 9.1 meg | 43 meg  | 200 meg | 910 meg  |
| 0.47 | 2.2  | 10   | 47   | 220  | 1000 | 4700   | 22,000 | 100,000 | 0.47 meg | 2.2 meg | 10 meg  | 47 meg  | 220 meg | 1000 meg |
| 0.51 | 2.4  | 11   | 51   | 240  | 1100 | 5100   | 24,000 | 110,000 | 0.51 meg | 2.4 meg | 11 meg  | 51 meg  | 240 meg | 1100 meg |
| 0.56 | 2.7  | 12   | 56   | 270  | 1200 | 5600   | 27,000 | 120,000 | 0.56 meg | 2.7 meg | 12 meg  | 56 meg  | 270 meg | 1200 meg |
| 0.62 | 3.0  | 13   | 62   | 300  | 1300 | 6200   | 30,000 | 130,000 | 0.62 meg | 3.0 meg | 13 meg  | 62 meg  | 300 meg | 1300 meg |
| 0.68 | 3.3  | 15   | 68   | 330  | 1500 | 6800   | 33,000 | 150,000 | 0.68 meg | 3.3 meg | 15 meg  | 68 meg  | 330 meg | 1500 meg |
| 0.75 | 3.6  | 16   | 75   | 360  | 1600 | 7500   | 36,000 | 160,000 | 0.75 meg | 3.6 meg | 16 meg  | 75 meg  | 360 meg | 1600 meg |
| 0.82 | 3.9  | 18   | 82   | 390  | 1800 | 8200   | 39,000 | 180,000 | 0.82 meg | 3.9 meg | 18 meg  | 82 meg  | 390 meg | 1800 meg |
| 0.91 | 4.3  | 20   | 91   | 430  | 2000 | 9100   | 43,000 | 200,000 | 0.91 meg | 4.3 meg | 20 meg  | 91 meg  | 430 meg | 2000 meg |
| 1.0  | 4.7  | 22   | 100  | 470  | 2200 | 10,000 | 47,000 | 220,000 | 1.0 meg  | 4.7 meg | 22 meg  | 100 meg | 470 meg | 2200 meg |

### TYPE GBT, SR 5% FIXED COMPOSITION

\* Covers resistors in assorted values.

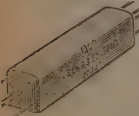
| Stock No. | Mfr's Type         | MIL Equiv. | Values                |
|-----------|--------------------|------------|-----------------------|
| 1 MM 005  | GBT- $\frac{1}{2}$ | RC20       | 10 $\Omega$ to 22 meg |
| 1 MM 025  | GBT-1              | RC32       | 10 $\Omega$ to 22 meg |
| 1 MM 045  | SR-2               | RC42       | 10 $\Omega$ to 22 meg |

### TYPE BW 5% FIXED WIRE-WOUND (Low Power)

\* Covers resistors in assorted values.

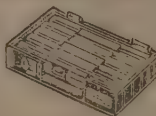
| Stock No. | Mfr's Type        | MIL Equiv. | Values                         | NET EACH |
|-----------|-------------------|------------|--------------------------------|----------|
| 1 MM 066  | BW- $\frac{1}{2}$ | RU-3       | 0.24 $\Omega$ to 9.1 $\Omega$  | 48c      |
| 1 MM 065  | BW- $\frac{1}{2}$ | RU-3       | 10 $\Omega$ to 820 $\Omega$    | 30c      |
| 1 MM 085  | BW-1              | RU-4       | 0.47 $\Omega$ to 5100 $\Omega$ | 45c      |
| 1 MM 105  | BW-2              | RU-6       | 1.0 $\Omega$ to 8200 $\Omega$  | 60c      |

## MULTI-RANGE 10-WATT WIRE-WOUND RESISTORS



Type MR. Unique, new resistors combining 4 separate 10-watt elements in a single, compact unit. With instructions for connecting element leads to provide up to 47 different resistance values within the ranges listed below. Shpg. wt., 3 oz. 2 per pkg.

| Stock No. | Type | Resistance Range                           | NET PER PKG. |
|-----------|------|--------------------------------------------|--------------|
| 1 M 580   | MR-4 | 47 values from 0.5 $\Omega$ to 15 $\Omega$ | 1.18         |
| 1 M 581   | MR-2 | 24 values from 5.0 through 150 ohms        | 1.18         |
| 1 M 582   | MR-4 | 47 values from 50 through 150 ohms         | 1.18         |
| 1 M 583   | MR-4 | 47 values from 500 through 15,000 ohms     | 1.18         |
| 1 M 584   | MR-5 | 12 values from 3000 through 50,000 ohms    | 1.78         |



Type 55 Power Resistor Assortment. A complete power resistor kit consisting of 10 Type MR multi-range resistors. Kit includes 2 of each Type MR resistor listed in the table at left. Highly recommended for schools and laboratories, experimenters, Amateurs, etc. 200 different resistance values can be obtained from these 10 multi-range units. Provides complete 10-watt coverage right at your fingertips—resistance values range all the way from 0.5 ohms to 50,000 ohms. Steatite housings provide excellent insulation. Supplied in convenient plastic box. Size,  $1\frac{1}{4}$  x  $5\frac{1}{4}$  x  $3\frac{1}{2}$ ". Shpg. wt., 1 lb.

31 M 585. NET. . . . . 6.47





space saving cabinets have 4 drawers and 28 compartments. Each resistance value is in a separate compartment. Prices are for resistors only—no charge for cabinets.  $5\frac{3}{8} \times 5\frac{15}{16} \times 10\frac{7}{8}$ "

sortment No. 3A. 120 2-watt resistors as follows: 7 each: 8200, 10K, 22K, 47K; 5 each: 6800, 15K, 0.1 meg; 4 each: 100, 330, 470, 10, 2200, 3300, 4700, 27K, 1.0 meg; 3 each: 82, 150, 220, 270, 3900, 0.22 meg, 0.47 meg; 2 each: 4.7, 10, 22, 68; 1 each: 15, 27, 33, 39. 18 Resist-O-Cabinet. 4½ lbs. **28.22**

**sortment No. 4A.** 150 IRC ½-watt resistors:  
8 each: 1K, 47K, 0.1 meg, 0.27 meg, 470K,  
1 meg; 7 each: 4700, 10K, 0.22 meg, 2.2 meg;  
6 each: 3300, 22K, 27K, 33K, 0.33 meg, 4.7  
meg; 4 each: 100, 470, 1500, 2200, 2700, 56K,  
100K, 3.3 meg; 3 each: 47, 220, 270, 10 meg.  
With Resist-O-Cabinet. Wt., 4½ lbs.

**M 777. NET.....**

**17.64**

sortment No. 5A. 125 IRC 1-watt resistors.  
each: 1K, 10K, 27K, 47K, 0.1 meg, 0.27 meg,  
17 meg, 1.0 meg; 5 each: 2200, 4700, 22K,  
each: 33K, 39K, 68K; 3 each: 47, 100, 150  
0, 270, 470, 1500, 2700, 3300, 15K, 0.15 meg,  
0.2 meg, 2.2 meg, 4.7 meg. With metal Resist  
Cabinet. Shpg. wt., 4 3/4 lbs. **22.05**  
M 778. NET.....

[illegible]

PW-5 AND  
PW-10

| VALUES AVAILABLE (OHMS) |     |      |      |      |        |  |
|-------------------------|-----|------|------|------|--------|--|
| 20                      | 125 | 600  | 1500 | 4000 | 8500   |  |
| 25                      | 150 | 700  | 1750 | 4500 | 9000   |  |
| 30                      | 200 | 750  | 2000 | 5000 | 10,000 |  |
| 40                      | 250 | 800  | 2250 | 6000 | 12,000 |  |
| 50                      | 300 | 900  | 2500 | 7000 | 12,500 |  |
| 75                      | 350 | 1000 | 3000 | 7500 | 15,000 |  |
| 100                     | 400 | 1200 | 3300 | 8000 | 20,000 |  |
| 120                     | 500 | 1250 | 3500 | 8200 | 25,000 |  |

**TYPE PW-5.** IRC 5-watt wire-wound resistor with glass fiber core. Sealed and insulated rectangular ceramic case. 1½" leads. Tolerance ±10%. Size less leads, 7/8x1/8". Shpg. wt., 2 oz. available in values 1 to 6000 ohms only. Specifications listed above.

MM 175, NET EACH.....24

type PW-10. As above but 10-watt rating.  
size,  $1\frac{7}{8} \times \frac{3}{8}$ ". Specify value when ordering

MM 190, NET EACH.....35

## AXIAL-LEAD "RESIST-O-CARD" RESISTOR ASSORTMENTS

**type PW-5X10. IRC 10-watt resistors. 1 ea: 10, 20, 25, 0, 100, 500, 1K, 2K, 4K, & K.**  
**M 176. NET. 2.45**  
**type PW-5X20. 5-watt resistors. 1 ea: 1.5, 7.5, 10, 15, 0, 25, 50, 100, 150, 500, 750, K, 2K, 500, 1.5K, 2K, 2.5K, 4K, 5K.**  
**M 177. NET. 4.90**  
**type 20-A. 10-watt resistors. 1 ea: 50, 75, 100, 250, 500, 750, 1K, 1.5K, 2K, 2.5K, 3K, 3.9K, 4K, 5K, 6K, 7.5K, 10K, 15K.**  
**M 181. NET. 7.00**

Highly-reliable, "Resisteg" coated power resistors. Tolerances: fixed,  $\pm 5\%$ ; adjustable,  $\pm 10\%$ . All types of 25-watt rating or higher, supplied with mtg. brackets. All rated 100 watts or less have eyelets for screw mounting plus leads, except \*leads only; types rated over 100 watts have eyelets only. Specify resistance and wattage when ordering. Av. shpg. wts. 5 to 50-watt types, 4 oz.; others, 1 lb.

| VALUES AVAILABLE IN OHMS |    |     |     |      |      |      |       |       |     |      |
|--------------------------|----|-----|-----|------|------|------|-------|-------|-----|------|
| 1                        | 12 | 75  | 350 | 800  | 2000 | 5000 | 11K   | 20K   | 55K | 95K  |
| 1.5                      | 15 | 100 | 400 | 900  | 2250 | 6000 | 12K   | 22.5K | 60K | 100K |
| 2                        | 20 | 125 | 450 | 1000 | 2500 | 7000 | 12.5K | 25K   | 65K | 125K |
| 3                        | 25 | 150 | 500 | 1100 | 2750 | 7500 | 13.5K | 30K   | 70K | 150K |
| 4                        | 30 | 200 | 600 | 1200 | 3000 | 8000 | 15K   | 35K   | 75K | 175K |
| 5                        | 25 | 225 | 650 | 1300 | 3250 | 8500 | 16K   | 40K   | 80K | 200K |
| 7.5                      | 40 | 250 | 700 | 1500 | 4000 | 9000 | 17.5K | 45K   | 85K | 250K |
| 10                       | 50 | 300 | 750 | 1750 | 4500 | 10K  | 18K   | 50K   | 90K |      |

| TYPE 1A—5-8 WATTS—1½x½"    |                            |      | TYPE 4D—50 WATTS (Cont'd.) |                                                                                                                                                                     |      |
|----------------------------|----------------------------|------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Stock No.                  | Ohms                       | EACH | Stock No.                  | Ohms                                                                                                                                                                | EACH |
| MM 250                     | 1 to 1000 except 650       | .52  | MM 293                     | 12K, 15K and 20K only                                                                                                                                               | 1.35 |
| MM 251                     | 1100 to 5K except 2750     | .50  | MM 225                     | 25K and 35K only                                                                                                                                                    | 1.50 |
| MM 252                     | 5K to 10K except 8500      | .58  | MM 226                     | 35K only                                                                                                                                                            | 1.50 |
| MM 253                     | 12.5K to 20K* except 13.5K | 1.01 | MM 227                     | 75K only                                                                                                                                                            | 1.97 |
|                            | 16K, 18K                   | .65  | MM 228                     | 100K only                                                                                                                                                           | 2.13 |
| MM 254                     | 22.5K* and 25K* only       | .68  | MM 229                     | 125K only                                                                                                                                                           | 2.57 |
| TYPE 1¾A—10-12 WATTS—1¾x½" |                            |      | MM 330                     | 150K only                                                                                                                                                           | 2.70 |
| MM 270                     | 1 to 1000 except 650       | .57  | MM 331                     | 175K only                                                                                                                                                           | 2.70 |
| MM 271                     | 1100 to 5K except 2750     | .61  | MM 332                     | 200K only                                                                                                                                                           | 2.82 |
| MM 272                     | 5K to 10K                  | .70  | MM 333                     | 250K only                                                                                                                                                           | 3.29 |
| MM 273                     | 11K to 20K                 | .79  |                            |                                                                                                                                                                     |      |
| MM 274                     | 22.5K to 40K               | .83  | TYPE 6½E—100 WATTS—6½x½"   |                                                                                                                                                                     |      |
| MM 268                     | 45K and 50K only           | .93  | MM 304                     | 1K, 1.5K, 2K, 2.5K, 3K, 4K, 5K, 6K, 7K, 8K, 10K, 12K, 15K, 18K, 20K, 22K, 25K, 27K, 30K, 33K, 36K, 40K, 45K, 50K, 55K, 60K, 65K, 70K, 75K, 80K, 85K, 90K, 95K, 100K | 1.35 |

|        |                                                                         |     |
|--------|-------------------------------------------------------------------------|-----|
| MM 309 | 1, 2, 3, 4, 5, 10, 25, 50, 75,<br>100, 125, 150, 250, 500,<br>750, 1000 | 1.5 |
| MM 310 | 1.5K, 2K 2.5K, 3K, 5K only                                              | 1.6 |
| MM 311 | 7.5K and 10K only                                                       | 1.7 |
| MM 235 | 15K and 20K only                                                        | 1.8 |
| MM 236 | 25K, 30K, 40K only                                                      | 2.1 |
| MM 237 | 50K and 60K only                                                        | 2.2 |
| M 238  | 75K only                                                                | 2.4 |
| M 239  | 100K only                                                               | 2.7 |

|        |                                                                 |            |
|--------|-----------------------------------------------------------------|------------|
| MM 385 | 1, 2, 3, 4, 5, 10, 25, 50, 75,<br>100, 125, 150, 250, 500, 1000 | 2.2<br>2.3 |
| MM 386 | 1.5K, 2K, 2.5K, 3K, 5K only                                     | 2.6        |
| MM 387 | 7.5K and 10K only                                               | 2.5        |
| MM 388 | 15K and 20K only                                                | 2.7        |
| MM 389 | 25K, 30K and 40K only                                           | 2.8        |
| MM 390 | 50K and 60K only                                                | 2.8        |
| MM 391 | 75K only                                                        | 3.0        |
| MM 392 | 100K only                                                       | 3.0        |

|        |                                                                 |     |
|--------|-----------------------------------------------------------------|-----|
| MM 441 | 1, 2, 3, 4, 5, 10, 25, 50, 75,<br>100, 150, 250, 500, 750, 1000 | 2.4 |
| MM 442 | 1.5K, 2K, 2.5K, 3K, 5K only                                     | 2.5 |
| MM 443 | 7.5K and 10K only                                               | 2.7 |
| MM 444 | 15K and 20K only                                                | 2.8 |
| MM 445 | 25K, 30K and 40K only                                           | 2.9 |
| MM 446 | 50K and 60K only                                                | 3.0 |
| MM 447 | 75K only                                                        | 3.2 |
| MM 448 | 100K only                                                       | 3.4 |

| TYPE 134AA—10-12 WATTS—1¾"x¾" |                                                                          |      | TYPE 616A—100 WATTS—6½"x¾"    |                                                        |      |
|-------------------------------|--------------------------------------------------------------------------|------|-------------------------------|--------------------------------------------------------|------|
| MM 275                        | 1 to 1000 except 1.5, 4, 12, 30, 35, 40, 125, 225, 450, 650, 700 and 900 | 1.14 | MM 312                        | 1, 2, 3, 4, 5, 10, 25, 50, 100, 250, 500 and 1000 only | 2.14 |
| MM 276                        | 1250 to 15K except 1750, 2750                                            | 1.14 | MM 313                        | 1.5K, 2.5K and 5K only                                 | 2.14 |
| MM 277                        | 6K to 10K                                                                | 1.27 | MM 314                        | 10K only                                               | 2.14 |
|                               |                                                                          |      | MM 315                        | 15K and 20K only                                       | 2.24 |
| TYPE 2DA—25 WATTS—2"x¾"       |                                                                          |      | TYPE 316—25, 30K and 40K only |                                                        |      |
| MM 284                        | 1 to 1000 except 1.5, 4, 12, 30, 35, 40, 125, 225, 350, 650, 700 and 900 | 1.29 | MM 317                        | 50K only                                               | 2.70 |
|                               |                                                                          |      | MM 318                        | 75K only                                               | 2.70 |
|                               |                                                                          |      | MM 319                        | 100K only                                              | 2.70 |

|        |                                                           |     |
|--------|-----------------------------------------------------------|-----|
| MM 356 | 1, 2, 3, 4, 5, 10, 25, 50, 100,<br>250, 500 and 1000 only | 3.1 |
| MM 357 | 1.5K, 2.5K and 5K only                                    | 3.2 |
| MM 358 | 10K only                                                  | 3.4 |
| MM 359 | 15K and 20K only                                          | 3.5 |
| MM 360 | 25K, 30K and 40K only                                     | 3.6 |
| MM 362 | 50K only                                                  | 3.7 |
| MM 363 | 75K only                                                  | 3.8 |

| TYPE   | 10/2A                           | 200-225 | WATTS | 10/2X1 |
|--------|---------------------------------|---------|-------|--------|
| MM 377 | 1, 2, 3, 4, 5, 10, 25, 50, 100, |         |       |        |
|        | 250, 500 and 1000 only          |         |       | 3.3    |
| MM 378 | 1.5K, 2.5K, 5K only             |         |       | 3.3    |
| MM 379 | 10K only                        |         |       | 3.7    |
| MM 380 | 15K and 20K only                |         |       | 3.7    |
| MM 381 | 25K, 30K and 40K only           |         |       | 3.8    |
| MM 382 | 50K only                        |         |       | 4.0    |
| MM 383 | 75K only                        |         |       | 4.1    |
| MM 384 | 100K only                       |         |       | 4.2    |

**Extra Sliders.** For adjustable resistors. 3 c  
2 M 600. For 1½AA. NET.....1  
2 M 604. For 2DA, 4DA. NET.....1  
2 M 605. For 5EA, 6½EA. NET.....1  
2 M 603. For 8½HA, 10½HA. NET....2

# IRC and Ohmite Resistors

## IRC RESISTORS

UNMOLDED 1% PRECISION RESISTORS—MIL-10509



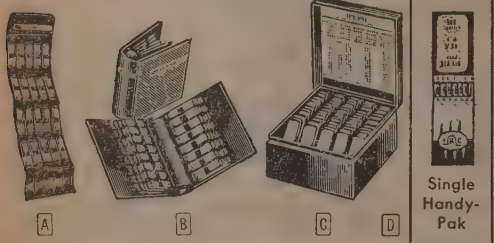
suited to the stringent requirements of instrumentation, advanced electronics and very critical color television circuits. Have low voltage coefficient, excellent frequency characteristics and small size. Wattage rating is 1/2-watt. Meets stringent requirements of military specification MIL-10509. Ratings, 40°C. Be sure to specify values when ordering. Av. shpg. wt., 3 oz.

### MIL-OHM VALUES—SPECIFY VALUES WANTED

| Ohms | Ohms | Ohms | Ohms | Ohms  | Ohms  | Ohms      |
|------|------|------|------|-------|-------|-----------|
| 10   | 61.9 | 383  | 2150 | 12.1K | 68.1K | 383K      |
| 11   | 68.1 | 422  | 2370 | 13.3K | 75K   | 450K      |
| 12.1 | 75   | 464  | 2610 | 14.7K | 82.5K | 464K      |
| 13.3 | 82.5 | 511  | 2870 | 16.2K | 90.9K | 511K      |
| 14.7 | 90.9 | 562  | 3160 | 17.8K | 100K  | 562K      |
| 16.2 | 100  | 619  | 3480 | 19.6K | 110K  | 619K      |
| 17.8 | 110  | 681  | 3830 | 21.5K | 121K  | 681K      |
| 19.6 | 121  | 750  | 4220 | 23.7K | 133K  | 750K      |
| 21.5 | 133  | 825  | 4640 | 26.1K | 147K  | 825K      |
| 23.7 | 147  | 909  | 5110 | 28.7K | 162K  | 909K      |
| 26.1 | 162  | 1000 | 5620 | 31.6K | 178K  | 1 meg     |
| 28.7 | 178  | 1100 | 6190 | 34.8K | 196K  | 1.1 megs  |
| 31.6 | 196  | 1210 | 6810 | 38.3K | 215K  | 1.21 megs |
| 34.8 | 215  | 1330 | 7500 | 42.2K | 237K  | 1.33 megs |
| 38.3 | 237  | 1470 | 8250 | 46.4K | 261K  | 1.47 megs |
| 42.2 | 261  | 1620 | 9090 | 51.1K | 287K  | 1.62 megs |
| 46.4 | 287  | 1780 | 10K  | 56.2K | 316K  | 1.78 megs |
| 51.1 | 316  | 1960 | 11K  | 61.9K | 348K  | 1.96 megs |
| 56.2 | 348  |      |      |       |       |           |

| Stock No. | Mfr's Type | Mil. Type | Values              | NET EACH |
|-----------|------------|-----------|---------------------|----------|
| 1 MM 492  | DCC        | RN20X     | 10 ohms-46.4 ohms   | .72      |
| 1 MM 493  | DCC        | RN20X     | 51.1 ohms-1.96 megs | .60      |

### HANDY-PAK RESISTOR ASSORTMENTS



Designed to keep stocks within quick, easy reach—and "cigar box confusion." Handy-Paks are uniform size for 1/2, 1 and 2 watts—one pack-size for each resistor value. Complete stocks are always visible. All resistors are 10% carbon composition types.

**A "Resistor-O-Caddy."** Convenient plastic pouch containing Handy-Pak folds to 6 3/4" x 1 1/2". Individual pockets keep packets secure and orderly—inventories is always visible. Ideal for in-home servicing.

**Type 45.** Assortment of 120 1/2-watt resistors; 20 values, 47 ohms to 10 megs. Shpg. wt., 8 oz. **2 M 782. NET EACH. 14.11**

**Type 45.** Assortment of 80 1-watt resistors; 20 values, 47 ohms to 10 megs. Shpg. wt., 8 oz. **2 M 783. NET EACH. 14.11**

**B "Resistor-O-Pedia."** Resistor stocks in handy book form. No extra charge for attractive blue and yellow hardback binder. Has 3-ring "fingered" inners for Handy-Paks. Complete stock is always visible. Binder size, 9x8 1/4 x 2 1/4". Av. shpg. wt., 3 1/2 lbs.

| Stock No. | Type | Description                                         | EACH  |
|-----------|------|-----------------------------------------------------|-------|
| 2 M 784   | 44   | 462 1/2-watt resistors; 77 values, 10 ohms—22 megs. | 54.33 |
| 2 M 785   | 48   | 308 1-watt resistors; 77 values, 10 ohms—22 megs.   | 54.33 |

**C "Resistor-O-Chest."** An all-metal resistor filing cabinet supplied complete with a wide assortment of resistors in "Handy-Paks." Ideal for the service shop. Has hinged lid and metal separators to keep Handy-Paks orderly—right at your fingertips. Inventory list in lid helps you keep stock up-to-date. Size, 6 1/2 x 5 1/2 x 3 1/2". Shpg. wts.: 42 and 43, 2 1/4 lbs.; 46 and 47, 2 1/2 lbs.; 49A and 50A, 3 lbs.

| Stock No. | Type | Description                                         | EACH  |
|-----------|------|-----------------------------------------------------|-------|
| 2 M 787   | 42   | 204 1/2-watt resistors; 34 values, 47 ohms 10 megs. | 23.99 |
| 2 M 788   | 43   | 462 1/2-watt resistors; 77 values, 10 ohms—22 megs. | 54.33 |
| 2 M 789   | 46   | 136 1-watt resistors; 34 values, 47 ohms 10 megs.   | 23.99 |
| 2 M 790   | 47   | 308 1-watt resistors; 77 values, 10 ohms 22 megs.   | 54.33 |
| 2 M 791   | 49A  | 102 2-watt resistors; 34 values, 100 ohms 10 megs.  | 23.99 |
| 2 M 792   | 50A  | 231 2-watt resistors; 77 values, 10 ohms—22 megs.   | 54.33 |

**D Replacement "Handy-Paks"** Each packet contains several carbon resistors of the same type and resistance value. Specify value desired. Av. shpg. wt., 6 oz.

**1 MM 487.** Pkg. of six 1/2-watt resistors. **NET PER PACKAGE. 7.1c**

**1 MM 488.** Pkg. of four 1-watt resistors. **NET PER PACKAGE. 7.1c**

**1 MM 489.** Pkg. of three 2-watt resistors. **NET PER PACKAGE. 7.1c**

## OHMITE RESISTORS

FAMOUS "BROWN DEVIL" WIRE-WOUND RESISTORS



For voltage dropping, bias supplies, bleeder etc. Have thick vitreous enamel coating for excellent heat conduction and insulation; also protects against the harmful effects of humidity. Accuracy, ±3%. Size: 5-watt units 1 1/4"; 10-watt units, 1 1/2"; 20-watt units 2"; Tinned leads for easy soldering. Lead length, 1 1/2". Av. shpg. wt., 5 oz.

### MIL-OHMS VALUE—SPECIFY VALUES WANTED

| Ohms | Ohms | Ohms  | Ohms | Ohms   | Ohms    |
|------|------|-------|------|--------|---------|
| 1    | 30*  | 350   | 1250 | 7,000  | 45,000  |
| 1.5* | 35*  | 400   | 1500 | 7,500  | 50,000  |
| 2    | 40*  | 450*  | 1750 | 8,000  | 55,000  |
| 3    | 50   | 500   | 2000 | 9,000  | 60,000  |
| 4    | 75   | 600   | 2250 | 10,000 | 65,000  |
| 5    | 100  | 700   | 2500 | 12,500 | 70,000  |
| 7.5* | 125* | 750   | 3000 | 15,000 | 75,000  |
| 10   | 150* | 800   | 3500 | 20,000 | 80,000  |
| 12*  | 200  | 900   | 4000 | 25,000 | 85,000  |
| 15*  | 225* | 1000  | 4500 | 30,000 | 90,000  |
| 20*  | 250  | 1100* | 5000 | 35,000 | 95,000  |
| 25   | 300  | 1200* | 6000 | 40,000 | 100,000 |

### 5-WATT SIZE

Available in all values to 10,000.

| Stock No. | Ohms         | NET EACH | Stock No. | Ohms           | NET EACH |
|-----------|--------------|----------|-----------|----------------|----------|
| 1 MM 730  | 1 to 1000    | .51      | 1 MM 732  | 6000 to 10,000 | .57      |
| 1 MM 731  | 1100 to 5000 | .54      |           |                |          |

### 10-WATT SIZE

Available in all values to 50,000 except 1.5 ohms.

|          |                |     |          |                   |     |
|----------|----------------|-----|----------|-------------------|-----|
| 1 MM 700 | 1 to 1000      | .56 | 1 MM 703 | 12,500 to 20,000  | .77 |
| 1 MM 701 | 1200 to 5000   | .61 | 1 MM 706 | 25,000 to 40,000  | .81 |
| 1 MM 702 | 6000 to 10,000 | .69 | 1 MM 707 | 45,000 and 50,000 | .91 |

### 20-WATT SIZE

Available in all values except those marked \* in table above.

|          |                  |     |          |                   |      |
|----------|------------------|-----|----------|-------------------|------|
| 1 MM 720 | 1 to 1000        | .67 | 1 MM 724 | 25,000 to 40,000  | .97  |
| 1 MM 721 | 1200 to 5000     | .69 | 1 MM 725 | 45,000 to 60,000  | 1.13 |
| 1 MM 722 | 6000 to 10,000   | .81 | 1 MM 726 | 65,000 to 80,000  | 1.34 |
| 1 MM 723 | 12,500 to 20,000 | .83 | 1 MM 727 | 85,000 to 100,000 | 1.54 |

### OHMITE AXIAL-LEAD WIRE-WOUND RESISTORS\*

Axial-lead, ceramic-core resistors. Covered with vitreous enamel to withstand high temperature. Resistance wire and terminals welded to end caps to assure excellent stability and minimum noise. Well-suited for all applications where equipment is subject to high operating temperatures and adverse conditions. Tolerance: ±5%. Wattage based on temperature rise to 300°C. 1 1/2" leads. Av. shpg. wt., 4 oz.

### SPECIFY RESISTANCE WHEN ORDERING

| Ohms | Ohms | Ohms | Ohms | Ohms | Ohms | Ohms   | Ohms   |
|------|------|------|------|------|------|--------|--------|
| 1.0  | 15   | 125  | 500  | 1800 | 4700 | 8,200  | 25,000 |
| 1.5  | 20   | 150  | 600  | 2000 | 5000 | 9,000  | 27,000 |
| 2.0  | 25   | 200  | 700  | 2200 | 5600 | 10,000 | 30,000 |
| 3.0  | 30   | 225  | 750  | 2500 | 6000 | 12,000 | 33,000 |
| 4.0  | 35   | 250  | 800  | 2700 | 6800 | 15,000 | 39,000 |
| 5.0  | 40   | 300  | 900  | 3000 | 7000 | 18,000 | 40,000 |
| 7.5  | 50   | 350  | 1000 | 3300 | 7500 | 20,000 | 47,000 |
| 10.0 | 75   | 400  | 1200 | 3900 | 8000 | 22,000 | 50,000 |
| 12.0 | 100  | 450  | 1500 | 4000 |      |        |        |

### 3 WATTS—1/4x1/4"

| Stock No. | Ohms      | EACH | Stock No. | Ohms        | EACH |
|-----------|-----------|------|-----------|-------------|------|
| 2 MM 090  | 1-1000    | 58c  | 2 MM 110  | 5600-10,000 | 65c  |
| 2 MM 095  | 1200-5000 | 61c  |           |             |      |

### 5 WATTS—1 1/4x1 1/4"

| Stock No. | Ohms        | EACH | Stock No. | Ohms          | EACH |
|-----------|-------------|------|-----------|---------------|------|
| 2 MM 115  | 1-1000      | 61c  | 2 MM 145  | 12,000-20,000 | 76c  |
| 2 MM 130  | 1200-5000   | 69c  | 2 MM 146  | 22,000-25,000 | 80c  |
| 2 MM 135  | 5600-10,000 | 69c  |           |               |      |

### 10 WATTS—1 1/2x1 1/2"

| Stock No. | Ohms        | EACH | Stock No. | Ohms          | EACH |
|-----------|-------------|------|-----------|---------------|------|
| 2 MM 121  | 1 and 2     | 93c  | 2 MM 125  | 12,000-20,000 | 93c  |
| 2 MM 122  | 3-1000      | 67c  | 2 MM 126  | 22,000-40,000 | 98c  |
| 2 MM 123  | 1200-5000   | 72c  | 2 MM 127  | 47,000-50,000 | 1.10 |
| 2 MM 124  | 5600-10,000 | 82c  |           |               |      |



### IRC FUSE RESISTORS

**Type FR 7.5.** A highly reliable plug in type resistor with characteristics of a slow blow fuse. Used extensively in late model television sets employing series string filament circuits. Prevents tube damage in case of overload. Insulated ceramic body. Resistance 7.5 ohms. Replaces similar units in RCA, Motorola, Zenith, etc. Wt., 3 oz.

**2 M 771. NET EACH. 44c**

**Type FR 5.** Same as above, but 5 ohms. 3 oz.

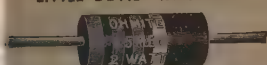
**2 M 773. NET EACH. 44c**

**Type FR 5.6.** Same as above, but 5.6 ohms. 3 oz.

**2 M 772. NET EACH. 44c**



## "LITTLE DEVIL" RESISTORS



led, insulated composition resistors. Meet R-11C specifications, including salt water immersion and high humidity tests. Dissipate heat rapidly and can be used at full watt-ratings at 158° F. Tinned copper leads. Known ratings: 1/10 W., 150 v.; 1/4 W., v.; 1/2 W., 350 v.; 1 W., 500 v.; 2 W., 750 v. z. wt., 2 oz.

SPECIFY VALUES DESIRED  
10% TOLERANCE RESISTORS

| ms | Ohms | Ohms   | Megs | Megs |
|----|------|--------|------|------|
| 0  | 220  | 4700   | 0.1  | 2.2  |
| 2  | 270  | 5600   | 0.12 | 2.7  |
| 5  | 330  | 6800   | 0.15 | 3.3  |
| 10 | 390  | 8200   | 0.18 | 3.9  |
| 12 | 470  | 10,000 | 0.22 | 4.7  |
| 17 | 560  | 12,000 | 0.27 | 5.6  |
| 13 | 680  | 15,000 | 0.33 | 6.8  |
| 18 | 820  | 18,000 | 0.39 | 8.2  |
| 16 | 1000 | 22,000 | 0.47 | 10.0 |
| 17 | 1200 | 27,000 | 0.56 | 12.0 |
| 38 | 1500 | 33,000 | 0.68 | 15.0 |
| 32 | 1800 | 39,000 | 0.82 | 18.0 |
| 20 | 2300 | 47,000 | 1.0  | 22.0 |
| 20 | 2700 | 56,000 | 1.2  |      |
| 50 | 3300 | 68,000 | 1.5  |      |
| 30 | 3900 | 82,000 | 1.8  |      |

MAY BE ASSORTED NOT ASSORTED

| stock No.  | Watts | 1-4 EA. | 5-49 EA. | 50-99 EA. | 100-249 EA. |
|------------|-------|---------|----------|-----------|-------------|
| MM050 1/10 | .24   | .20     | .16      | .14       |             |
| MM040 1/4  | .13   | .11     | .07      | .05       |             |
| MM030 1/2  | .12   | .10     | .06      | .04       |             |
| MM060 1    | .18   | .15     | .09      | .06       |             |
| MM080 2    | .24   | .20     | .15      | .11       |             |

plies to resistors of one value only.  
values from 10 ohms to 1.0 megohm only.  
values from 47 ohms to 22 megohms only.

## 5% TOLERANCE RESISTORS

| ms  | Ohms | Ohms   | Megs | Megs |
|-----|------|--------|------|------|
| 0   | 220  | 4700   | 0.1  | 2.2  |
| 1   | 240  | 5100   | 0.11 | 2.4  |
| 12  | 270  | 5600   | 0.12 | 2.7  |
| 13  | 300  | 6200   | 0.13 | 3.0  |
| 15  | 330  | 6800   | 0.15 | 3.3  |
| 16  | 360  | 7500   | 0.16 | 3.6  |
| 18  | 390  | 8200   | 0.18 | 3.9  |
| 20  | 430  | 9100   | 0.20 | 4.3  |
| 22  | 470  | 10,000 | 0.22 | 4.7  |
| 24  | 510  | 11,000 | 0.24 | 5.1  |
| 27  | 560  | 12,000 | 0.27 | 5.6  |
| 30  | 620  | 13,000 | 0.30 | 6.2  |
| 33  | 680  | 15,000 | 0.33 | 6.8  |
| 36  | 750  | 16,000 | 0.36 | 7.5  |
| 39  | 820  | 18,000 | 0.39 | 8.2  |
| 43  | 910  | 20,000 | 0.43 | 9.1  |
| 47  | 1000 | 22,000 | 0.47 | 10.0 |
| 51  | 1100 | 24,000 | 0.51 | 11.0 |
| 56  | 1200 | 27,000 | 0.56 | 12.0 |
| 62  | 1300 | 30,000 | 0.62 | 13.0 |
| 68  | 1500 | 33,000 | 0.68 | 15.0 |
| 75  | 1600 | 36,000 | 0.75 | 16.0 |
| 82  | 1800 | 39,000 | 0.82 | 18.0 |
| 91  | 2000 | 43,000 | 0.91 | 20.0 |
| 100 | 2200 | 47,000 | 1.0  | 22.0 |
| 110 | 2400 | 51,000 | 1.1  |      |
| 120 | 2700 | 56,000 | 1.2  |      |
| 130 | 3000 | 62,000 | 1.3  |      |
| 150 | 3300 | 68,000 | 1.5  |      |
| 160 | 3600 | 75,000 | 1.6  |      |
| 180 | 3900 | 82,000 | 1.8  |      |
| 200 | 4300 | 91,000 | 2.0  |      |

MAY BE ASSORTED NOT ASSORTED

| Stock No. | Watts | 1-4 EA. | 5-49 EA. | 50-99 EA. | 100-249 EA. |
|-----------|-------|---------|----------|-----------|-------------|
| MM045 1/4 | .26   | .22     | .14      | .095      |             |
| MM055 1/2 | .24   | .20     | .12      | .075      |             |
| MM065 1   | .36   | .30     | .18      | .125      |             |
| MM085 2   | .48   | .40     | .24      | .19       |             |

Applies to resistors of one value only.  
In values from 27 ohms to 22 megohms only.

## "LITTLE DEVIL" ASSORTMENTS

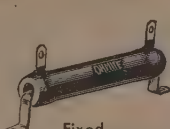


Most often-needed resistors. In plastic cabinet, 1/4x9x5/4" with 5 drawers, 40 compartments, overall top and bottom, 3 lbs.

| No.    | Type   | Description            | EACH  |
|--------|--------|------------------------|-------|
| MM 767 | CAB-1  | 150 1/4-watt resistors | 19.11 |
| MM 761 | CAB-10 | 150 1/4-watt resistors | 17.64 |
| MM 754 | CAB-2  | 125 1-watt resistors   | 22.05 |
| MM 762 | CAB-3  | 125 2-watt resistors   | 29.40 |

## WIRE-WOUND POWER RESISTORS

Fixed units are used as voltage droppers, bias resistors, bleeders, etc., in those applications where circuitry resistance need not be varied. Resistance tolerance is  $\pm 5\%$  for values 1 ohm or higher;  $\pm 10\%$  below 1 ohm. Adjustable types are used in voltage dividing networks, power supplies, as dropping resistors, any application where adjustable resistance is required. Accuracy is  $\pm 10\%$ . With slider and mtg. brackets. All units use wire of the finest alloy and largest possible size, wound on high quality ceramic cores, protected and insulated by thick vitreous enamel coatings. Wattage ratings apply where units are used in free air; when mounted in closed spaces with restricted air circulation, they should not be used at more than 1/2 their rating. Av. shpg. wt., 1/2 lb.



Fixed



Adjustable

## FIXED POWER RESISTORS

| Stock No. | Ohms                                                                                                                                              | EACH |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|
| 1 MM 770  | 51, 10, 1.5, 2.2, 3.3, 4.7, 6.8, 10, 12, 15, 18, 22, 27, 33, 39, 47, 56, 68, 82, 100, 120, 150, 180, 220, 270, 330, 390, 470, 560, 680, 820, 1000 | .56  |
| 1 MM 771  | 1200, 1500, 1800, 2200, 2700, 3300, 3900, 4700                                                                                                    | .60  |
| 1 MM 772  | 5600, 6800, 8200, 10K                                                                                                                             | .69  |
| 1 MM 773  | 12K, 15K, 18K                                                                                                                                     | .77  |
| 1 MM 774  | 22K, 27K, 33K, 39K                                                                                                                                | .81  |
| 1 MM 775  | 47K and 51K only                                                                                                                                  | .91  |

| Stock No. | Ohms                                                                       | EACH |
|-----------|----------------------------------------------------------------------------|------|
| 1 MM 776  | 1, 2, 3, 4, 5, 10, 15, 25, 50, 75, 100, 150, 200, 250, 500, 750, 800, 1000 | .71  |
| 1 MM 777  | 1500, 2000, 2500, 3000, 3500, 4000, 5000                                   | .73  |
| 1 MM 835  | 6000, 7500, 10,000                                                         | .83  |
| 1 MM 778  | 12K, 15K, 20K                                                              | .88  |
| 1 MM 779  | 25K, 30K, 35K, 40K                                                         | 1.02 |
| 1 MM 780  | 50K and 60K                                                                | 1.19 |
| 1 MM 781  | 70K and 80K                                                                | 1.39 |
| 1 MM 782  | 100,000 only                                                               | 1.61 |

| Stock No. | Ohms                                                                   | EACH |
|-----------|------------------------------------------------------------------------|------|
| 1 MM 769  | 1, 2, 3, 4, 5, 10, 25, 50, 75, 100, 150, 200, 250, 500, 750, 800, 1000 | 1.52 |
| 1 MM 783  | 1500, 2000, 2500, 3000, 3500, 4000, 5000                               | 1.09 |
| 1 MM 784  | 1500, 2000, 2500, 3000, 3500, 4000, 5000                               | 1.12 |
| 1 MM 785  | 7500, 8000, 10,000                                                     | 1.21 |
| 1 MM 836  | 12,000, 15,000, 20,000                                                 | 1.32 |
| 1 MM 786  | 25K and 35K                                                            | 1.51 |
| 1 MM 787  | 50K only                                                               | 1.69 |
| 1 MM 788  | 75K only                                                               | 1.93 |
| 1 MM 789  | 100K only                                                              | 2.09 |
| 1 MM 790  | 125K only                                                              | 2.52 |
| 1 MM 791  | 150K only                                                              | 2.65 |

## "DIVIDOHM" ADJUSTABLE RESISTORS

| Stock No.                         | Ohms                                                      | EACH |
|-----------------------------------|-----------------------------------------------------------|------|
| 1 MM 804                          | 1, 2, 3, 5, 10, 25, 50, 75, 100, 150, 250, 500, 750, 1000 | 1.12 |
| 1 MM 805                          | 1500, 2500, 5000                                          | 1.16 |
| 1 MM 806                          | 7.5K and 10K                                              | 1.24 |
| 75 M 883, Extra Slider, 2 oz. NET |                                                           | 1.14 |
| Stock No.                         | Ohms                                                      | EACH |
| 1 MM 807                          | 1, 3, 5, 10, 15, 25, 50, 75, 100, 250, 500, 750, 1K       | 1.26 |
| 1 MM 808                          | 1.5K, 2K, 2.5K, 3K, 5K                                    | 1.39 |
| 1 MM 809                          | 7.5K and 10K                                              | 1.44 |
| 1 MM 810                          | 12K, 15K, and 20K                                         | 1.49 |
| 1 MM 811                          | 25K only                                                  | 1.58 |

| Stock No. | Ohms                                                        | EACH |
|-----------|-------------------------------------------------------------|------|
| 1 MM 812  | 1 only                                                      | 2.08 |
| 1 MM 813  | 2, 3, 4, 10, 25, 50, 75, 100, 150, 200, 250, 500, 750, 1000 | 1.65 |
| 1 MM 814  | 1500, 2000, 2500, 3000                                      | 1.68 |
| 1 MM 815  | 100K only                                                   | 1.76 |
| 1 MM 816  | 15K and 20K only                                            | 1.88 |
| 1 MM 817  | 25K, 30K, 40K                                               | 2.07 |
| 1 MM 818  | 50K only                                                    | 2.24 |
| 1 MM 819  | 100K only                                                   | 2.65 |

| Stock No.                         | Ohms                                                                  | EACH |
|-----------------------------------|-----------------------------------------------------------------------|------|
| 75 M 880, Extra Slider, 2 oz. NET |                                                                       | 1.14 |
| Stock No.                         | Ohms                                                                  | EACH |
| 1 MM 856                          | 1 and 2                                                               | 2.34 |
| 1 MM 857                          | 3, 4, 5, 10, 15, 25, 50, 100, 200, 250, 300, 400, 500, 750, 800, 1000 | 1.83 |

## 50 WATT-4x3/4" (Cont'd)

| Stock No. | Ohms      | EACH |
|-----------|-----------|------|
| 1 MM 792  | 175K only | 2.73 |
| 1 MM 793  | 200K only | 2.83 |
| 1 MM 794  | 250K only | 3.18 |

| Stock No. | Ohms                                                     | EACH |
|-----------|----------------------------------------------------------|------|
| 1 MM 768  | 1, 2, 3                                                  | 2.12 |
| 1 MM 795  | 4, 5, 10, 25, 50, 75, 100, 125, 150, 250, 500, 750, 1000 | 1.51 |
| 1 MM 796  | 1.5K, 2K, 2.5K, 3K, 5K                                   | 1.57 |
| 1 MM 797  | 7.5K and 10K                                             | 1.70 |
| 1 MM 798  | 15K and 20K                                              | 1.83 |
| 1 MM 799  | 25K, 30K and 40K                                         | 2.09 |
| 1 MM 800  | 50K and 60K                                              | 2.17 |
| 1 MM 801  | 75K only                                                 | 2.40 |
| 1 MM 803  | 100K only                                                | 2.69 |

| Stock No. | Ohms                                               | EACH |
|-----------|----------------------------------------------------|------|
| 1 MM 837  | 1, 2, 3, 4, 5                                      | 3.14 |
| 1 MM 838  | 10, 25, 50, 75, 100, 125, 150, 250, 500, 750, 1000 | 2.23 |
| 1 MM 839  | 1.5K, 2K, 2.5K, 3K, 5K                             | 2.27 |
| 1 MM 841  | 7.5K and 10K                                       | 2.66 |
| 1 MM 842  | 15K and 20K                                        | 2.74 |
| 1 MM 843  | 25K, 30K and 40K                                   | 2.74 |
| 1 MM 844  | 50K and 60K                                        | 2.83 |
| 1 MM 845  | 75K only                                           | 3.02 |
| 1 MM 846  | 100K only                                          | 3.20 |

| Stock No. | Ohms                                               | EACH |
|-----------|----------------------------------------------------|------|
| 1 MM 847  | 1, 2, 3, 4, 5                                      | 3.37 |
| 1 MM 848  | 10, 25, 50, 75, 100, 125, 150, 250, 500, 750, 1000 | 2.41 |
| 1 MM 849  | 1.5K, 2K, 2.5K, 3K, 5K                             | 2.48 |
| 1 MM 850  | 7.5K and 10K                                       | 2.66 |
| 1 MM 851  | 15K and 20K                                        | 2.83 |
| 1 MM 852  | 25K, 30K, 40K                                      | 2.92 |
| 1 MM 853  | 50K and 60K                                        | 3.02 |
| 1 MM 854  | 75K only                                           | 3.20 |
| 1 MM 855  | 100K only                                          | 3.39 |

## 75 WATT-6x3/4" (Cont'd)

| Stock No. | Ohms                                             | EACH |
|-----------|--------------------------------------------------|------|
| 1 MM 858  | 1250, 1500, 2000, 2250, 2.5K, 3K, 3.5K, 4K, 4.5K | 1.88 |
| 1 MM 859  | 6K, 7K, 7.5K, 8K, 9K, 10K                        | 1.97 |
| 1 MM 861  | 12K, 15K, 20K                                    | 2.09 |
| 1 MM 862  | 25K, 30K, 35K, 40K                               | 2.27 |
| 1 MM 863  | 45K, 50K, 60K                                    | 2.47 |
| 1 MM 864  | 75K only                                         | 2.72 |
| 1 MM 865  | 100K only                                        | 2.87 |

| Stock No.                         | Ohms                                  | EACH |
|-----------------------------------|---------------------------------------|------|
| 75 M 880, Extra Slider, 2 oz. NET |                                       | 1.14 |
| Stock No.                         | Ohms                                  | EACH |
| 1 MM 821                          | 1, 2, 3                               | 2.68 |
| 1 MM 822                          | 4, 5, 10, 25, 50, 100, 250, 500, 1000 | 2.07 |
| 1 MM 823                          | 5K only                               | 2.13 |
| 1 MM 824                          | 10K only                              | 2.25 |
| 1 MM 825                          | 15K and 20K only                      | 2.39 |
| 1 MM 826                          | 25K and 40K only                      | 2.65 |
| 1 MM 827                          | 50K only                              | 2.95 |
| 1 MM 828                          | 100K only                             | 3.25 |

| Stock No.                         | Ohms                            | EACH |
|-----------------------------------|---------------------------------|------|
| 75 M 881, Extra Slider, 2 oz. NET |                                 | 1.14 |
| Stock No.                         | Ohms                            | EACH |
| 1 MM 829                          | 1, 2, 3, 4, 5                   | 4.23 |
| 1 MM 830                          | 10, 25, 50, 100, 250, 500, 1000 | 3.27 |
| 1 MM 831                          | 5K only                         | 3.34 |
| 1 MM 832                          | 10K only                        | 3.52 |
| 1 MM 833                          | 50K only                        | 3.98 |
| 1 MM 834                          | 100K only                       | 4.25 |

| Stock No.                         | Ohms | EACH |
|-----------------------------------|------|------|
| 75 M 882, Extra Slider, 2 oz. NET |      | 1.23 |

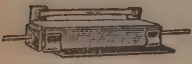
# Resistors—Audio and TV Controls

## OHMITE TYPE FR 7½-OHM FUSE RESISTOR



A highly dependable 7½-ohm fuse resistor. May be used to replace many fuse resistors used in television circuits. 1½" tinned wire leads make replacement application easy and quick. Supplied with convenient, plug-in bakelite mounting strip—or can be wired directly into circuit of TV set. Very commonly used in series-stringing filament circuits. Length, 1½". Shpg. wt., 3 oz.  
2 M 063. NET.....44c

## G-C SURGISTORS



Surge resistors for increased receiving tube, CR tube and component life. Combine the functions of a resistor and a relay. Limit harmful initial voltage surge to 25% of normal, yet allow full voltage after warm-up. Connect directly into the power line. For use with 110-120 v., AC-DC. Av. shpg. wt., 7 oz.

| Stock No. | Type   | Watts   | NET  |
|-----------|--------|---------|------|
| 80 G 144  | 25-894 | 100-275 | 1.40 |
| 81 G 036  | 25-896 | 250-400 | 1.57 |

## G-C GLO-BAR "THERMISTORS"



Popular thermistors used in series-stringing filament circuits of RCA, Crosley, Philco, and other TV sets. A necessary service replacement item. \*Matched pair; replaces filament resistors of G. F., M.rola, Philco, etc. Av. shpg. wt., 1 oz.

| Stock No. | Type   | Ohms           |      | Replaces         | NET EACH |       |
|-----------|--------|----------------|------|------------------|----------|-------|
|           |        | Hot            | Cold |                  | 1-9      | 10-Up |
| 2 M 066   | 25-912 | 20             | 250  | GE RRW051        | .88      | .79   |
| 2 M 067   | 25-914 | 75             | 950  | GE RRW041        | 1.29     | 1.16  |
| 2 M 068   | 25-916 | 31             | 260  | GE RRW097        | 1.12     | 1.01  |
| 2 M 069   | 25-918 | 35             | 460  | GE RRW054        | 1.12     | 1.01  |
| 2 M 053   | 25-920 | 11             | 250  | M.rola 6A735941  | 1.47     | 1.34  |
| 2 M 054   | 25-922 | 50             | 1050 | Philco 33-1343-3 | .94      | .85   |
| 2 M 055   | 25-924 | 10500 at 125V. |      | G. E. RRW052     | 1.88     | 1.67  |
| 2 M 070   | 25-926 | 43             | 125  | Crosley          | 1.47     | 1.32  |
| 2 M 071   | 25-928 | 9              | 200  | RCA 100118       | 1.23     | 1.12  |
| 2 M 072   | 25-910 | 40             | 375  | *(see above)     | 1.76     | 1.58  |

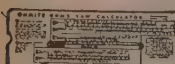
## G-C TV FUSE RESISTORS



Reliable, low-cost replacement units for series-stringing TV tube circuits. Replace similar units in Raytheon, RCA, Motorola, Sylvania, Zenith and other TV receivers. All units are less than an inch in length; tinned leads for quick and easy installation. Av. shpg. wt., 1 oz.

| Stock No. | Type      | Ohms | List  | 1-9, EACH | 10-Up, EACH |
|-----------|-----------|------|-------|-----------|-------------|
| 2 M 021   | 25-980-BU | 4.7  | \$.65 |           |             |
| 2 M 022   | 25-982-BU | 7.5  | .65   |           |             |
| 2 M 023   | 25-988-BU | 7.5  | .65   | 29c       | 24c         |
| 2 M 024   | 25-990-BU | 9.0  | .65   |           |             |
| 2 M 025   | 25-994-BU | 22.0 | .65   |           |             |

2 M 026, Type 25-996 Fuse Resistor Kit. Contains 6-7.5; 1-4.7; 1-7.5; 1-9.0; and 1-22-ohm fuse resistors. 10 oz. NET.....1.95



## HANDY OHM'S LAW CALCULATOR

Easy-to-use calculator. Solves problems in Ohm's Law and DC power. Shows power, voltage and current when resistance is known. By setting to two known values resistance can be determined. Also has parallel resistance calculator. Size, 9x3". Shpg. wt., 3 oz.

2 M 780. NET.....25c  
2 M 781, Deluxe Plastic Model. NET.....1.50



## ALLIED'S COLOR-CODE GUIDE

Code colors may be set to show resistance or resistance values may be set to show colors. Size, 2½x3¾". Includes tolerance code and EIA-JAN #10% standard stock values. Free with order for 20 or more resistors. Shpg. wt., 6 oz.

2 M 770. NET.....15c

## CENTRALAB "COMPENTROLS"



C-1

**TYPE C-1.** Combination volume control and tone compensator. Improves apparent bass and treble response of TV sets, radios, hi-fi, etc., when volume is at low level. Replaces existing volume controls. Types C1-60-S and C1-70-S have SPST switch. Shaft length, 3". 1½" body dia. Shpg. wt., 5 oz.

| Stock No. | Mfr's Type | Ohms  | NET EACH |
|-----------|------------|-------|----------|
| 30 M 421  | C1-60      | ½ meg | 2.40     |
| 30 M 422  | C1-60-S    | ½ meg | 2.95     |
| 30 M 423  | C1-70      | 1 meg | 2.40     |
| 30 M 424  | C1-70-S    | 1 meg | 2.95     |



C-2

Closely follow the curves of the Fletcher-Munson effect. Low loss—do not require added amplification.

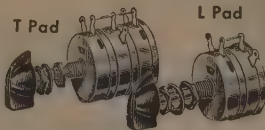
**TYPE C2-100 "SENIOR."** Similar to C-1, left. Dual concentric type for replacing 250K to 2 meg volume controls in amplifiers, TV sets, etc. Permits any degree of compensation at low listening levels. Shaft length, 7½". 1½" dia. With 2 knob, 6 oz.

30 M 436. NET EACH...3.30

**TYPE C2-200.** Same as C2-100 Compentrol above, except in "Fastatch" design. Front and rear units separate; permits cutting shafts to desired length. 8 oz.

30 M 437. NET EACH...3.30

## MALLORY CONTROLS



**T Pad Attenuators.** Present constant source impedance as well as constant load at all control settings. Size: 1½" dia., 1" deep.

## SPEAKER CONTROLS

Constant-load attenuator pads. Widely used to control the level of low-impedance audio circuits in sound systems. Rated at 4 watts, continuous DC. 1½" w. peak audio. Have 2" shafts. Bushing size: ¾x¾" diameter. Supplied with bar knob, 0-10 dial plate and wiring instructions. Av. shpg. wt., 7 oz.

**L Pad Attenuators.** Present constant load impedance at control settings. Size: 1½" dia., 1" deep.

| Ohms | Stock No. | Type  | Stock No. | Type  |
|------|-----------|-------|-----------|-------|
| 2    | 29 M 868  | T2    | 29 M 883  | L2    |
| 4    | 29 M 869  | T4    | 29 M 884  | L4    |
| 8    | 29 M 870  | T8    | 29 M 885  | L8    |
| 15   | 29 M 871  | T15   | 29 M 886  | L15   |
| 50   | 29 M 873  | T50   | 29 M 887  | L50   |
| 100  | 29 M 865  | T100  | 29 M 920  | L100  |
| 200  | 29 M 874  | T200  | 29 M 888  | L200  |
| 250  | 29 M 875  | T250  | 29 M 889  | L250  |
| 500  | 29 M 876  | T500  | 29 M 890  | L500  |
| 600  | 29 M 866  | T600  | 29 M 921  | L600  |
| 1000 | 29 M 867  | T1000 | 29 M 922  | L1000 |
| 2000 | 29 M 877  | T2000 | 29 M 891  | L2000 |
| 3000 | 29 M 878  | T3000 | 29 M 923  | L3000 |
| 4000 |           |       | 29 M 892  | L4000 |

"T" Pads. NET EACH...3.09 "L" Pads. NET EACH...2.73



## THEATER SPEAKER CONTROLS

Precision units developed especially as controls in drive-in theater speaker installations. Withstand extremes of temperature and humidity. TSA-6 is an L-pad with 10-ohm input and 4-ohm output. TSA-35 is a 35-ohm series-type potentiometer. TSA-6 is a 6-ohm shunt-type attenuator. 1½" dia. case. Shafts are ½" long; \*steel (knurled), brass. Shpg. wt., 4 oz.

| Stock No. | Mfr's Type | Description           | EACH |
|-----------|------------|-----------------------|------|
| 29 M 847  | *TSA-10    | L-pad Potentiometer   | 1.47 |
| 29 M 848  | *TSA-35    | Shunt-type Attenuator | 1.08 |
| 29 M 849  | *TSA-6     | Shunt-type Attenuator | 1.08 |

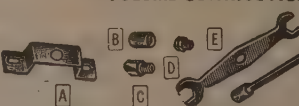
## MONOPHONIC AND STEREO L-PAD CONTROLS



Constant impedance attenuators. Use as level controls in low-impedance, low-level audio circuits. LL-8, LL-16, LL-50 are dual-tandem for stereo balance or master volume; others for monophonic use. 15-watt rating. 294° rotation. Bushing: 1" by ¾" dia. 1½" shaft. 5 oz.

| Stock No. | Mfr's Type | Ohms | NET EACH |
|-----------|------------|------|----------|
| 29 M 097  | LL-8       | 8    | 5.97     |
| 29 M 098  | LL-16      | 16   | 5.97     |
| 29 M 099  | LL-50      | 50   | 5.97     |
| 29 M 071  | L-8-A      | 8    | 2.85     |
| 29 M 072  | L-16-A     | 16   | 2.85     |

## VOLUME CONTROL ACCESSORIES



\*Couples ½" shafts to ¼", or ¼" to ½" shafts. 1 Extends body of control ¾" away from mtg. surface. Av. shpg. wt., 3 oz.

| Stock No. | Type   | Fig. | Description                    | EACH |
|-----------|--------|------|--------------------------------|------|
| 29 M 676  | RB249  | A    | Mtg. bracket. Mtg. Ctrs. 2¼"   | 25c  |
| 29 M 675  | RB248  | A    | Mtg. bracket. Mtg. Ctrs. 1¾"   | 21c  |
| 29 M 661  | EB2477 | C    | Extender                       | 42c  |
| 29 M 655  | RS242  | E    | Wrench for ½x¾" v.c. hex nuts  | 51c  |
| 29 M 656  | RS243  | F    | Ext. shaft, 4x½x¾" flat.       | 57c  |
| 29 M 657  | RS244  | F    | Ext. shaft, 4x½x¾" flat.       | 57c  |
| 29 M 658  | RS245  | F    | Ext. shaft, 2x¼" with ¾" slot. | 81c  |
| 29 M 670  | EC240* | B    | Coupling                       | 60c  |
| 60 H 392  | UB241  | D    | Bushing for panel mounting.    | 9c   |

## JENSEN SPEAKER VOLUME CONTROLS



Two-section L-pads designed for controlling volume of individual speakers. Have no effect on volume of other speakers or total impedance. Feature rugged construction with special alloy windings and solder lug terminals. Provide smooth, gradual volume control. Single hole panel mounting. With lock nut, pointer knob and flat metal escutcheon plate. Av. shpg. wt., 1 lb.

| Stock No. | Type   | Mfr's Type | Ohms    | Watts | NET EACH |
|-----------|--------|------------|---------|-------|----------|
| 33 M 942  | ST-760 |            | 3-4     | 15    | 2.85     |
| 33 M 940  | ST-275 |            | 6-8     | 15    | 1.97     |
| 33 M 941  | ST-411 |            | 6-8     | 15    | 4.09     |
| 33 M 938  | ST-837 |            | 15-16   | 35    | 3.38     |
| 33 M 939  | ST-761 |            | 500-600 | 35    | 4.26     |



# CTS-IRC Replacement and Push-Pull Controls

## EXACT-DUPLICATE AUTO-RADIO CONTROLS

Exact duplicate controls for replacement use in auto radios. Every CTS-IRC control listed is identical to the original replacement and jured mounting holes are always the correct dimensions. Wiring modifications are never necessary, and neither is the use of additional parts. If the original control was provided with a switch, the CTS-IRC placement also has one. Av. shpg. wt., 3 oz.



| BUICK      |         |           |                   |      | FORD (Cont'd) |         |          |                   |      |
|------------|---------|-----------|-------------------|------|---------------|---------|----------|-------------------|------|
| Stock No.  | Type    | Car Year  | Original Part No. | NET  | Stock No.     | Type    | Car Year | Original Part No. | NET  |
| M 812 5336 | 1946-53 | 188512084 |                   | 2.09 | M 871 5312    | 1952-53 |          | 121566-1          | 2.09 |
| M 812 5337 | 1954-56 | 188513457 |                   | 2.09 | M 872 5313    | 1953-54 |          | 181511635         | 2.09 |
| M 814 5349 | 1957    | 188540768 |                   | 2.47 | M 873 5314    | 1954    |          | 121986-7          | 2.09 |
| M 815 5411 | 1950-53 | 7263119   |                   | 2.47 | M 874 5315    | 1954    |          | 188530018         | 2.09 |
| M 816 5412 | 1954    | 7263409   |                   | 2.47 | M 875 5316    | 1955    |          | 121986-1          | 1.38 |
| M 817 5413 | 1955    | 7265742   |                   | 2.47 | M 876 5317    | 1955    |          | 188512084         | 2.09 |
| M 818 5414 | 1956    | 7268986   |                   | 2.47 | M 877 5318    | 1956    |          | 121986-1          | 2.09 |
| M 819 5415 | 1957    | 7268984   |                   | 2.47 | M 878 5319    | 1956    |          | 188534433         | 2.09 |
| M 820 5558 | 1958    | 7271329   |                   | 2.47 | M 879 5320    | 1957    |          | 2090035-1         | 2.09 |
| M 821 5558 | 1959    | 7273993   |                   | 2.47 | M 880 5321    | 1957    |          | 188539059         | 2.09 |
|            |         |           |                   |      | M 881 5322    | 1958    |          | 188539059         | 2.09 |
|            |         |           |                   |      | M 882 5323    | 1957-58 |          | 2090035-2         | 2.09 |
|            |         |           |                   |      | M 883 5324    | 1958    |          | 188541819         | 2.09 |
|            |         |           |                   |      | M 884 5325    | 1957-58 |          | 188542373         | 2.09 |
|            |         |           |                   |      | M 885 5326    | 1957-58 |          | 188542373         | 2.09 |
|            |         |           |                   |      | M 886 5327    | 1958    |          | 188561598         | 2.09 |
|            |         |           |                   |      | M 887 5328    | 1959    |          | 7090035-3         | 2.09 |

| CADILLAC   |         |          |                   |      | MERCURY    |         |          |                   |      |
|------------|---------|----------|-------------------|------|------------|---------|----------|-------------------|------|
| Stock No.  | Type    | Car Year | Original Part No. | NET  | Stock No.  | Type    | Car Year | Original Part No. | NET  |
| M 822 5422 | 1950-52 | 7259240  |                   | 2.47 | M 888 5329 | 1953-56 |          | 121986-2          | 2.47 |
| M 823 5424 | 1953    | 7263321  |                   | 2.47 | M 889 5330 | 1957    |          | 33-570-2          | 2.09 |
| M 824 5425 | 1955    | 7264638  |                   | 2.47 | M 890 5400 | 1958    |          | 121986-3          | 2.09 |
| M 825 5426 | 1956    | 7266982  |                   | 2.47 |            |         |          |                   |      |
| M 826 5427 | 1957    | 7269443  |                   | 2.47 |            |         |          |                   |      |

| CHEVROLET  |         |           |                   |      | OLDSMOBILE |      |          |                   |      |
|------------|---------|-----------|-------------------|------|------------|------|----------|-------------------|------|
| Stock No.  | Type    | Car Year  | Original Part No. | NET  | Stock No.  | Type | Car Year | Original Part No. | NET  |
| M 827 5342 | 1949-50 | 7258084   |                   | 2.47 | M 81 5346  | 1952 |          | 188512084         | 2.09 |
| M 828 5343 | 1950    | 1218641   |                   | 2.47 | M 81 5350  | 1954 |          | 188534547         | 2.09 |
| M 829 5344 | 1951-52 | 1219708   |                   | 2.47 | M 893 5473 | 1949 |          | 121986-2          | 2.47 |
| M 830 5345 | 1953    | 7261385   |                   | 2.47 | M 894 5474 | 1950 |          | 7260234           | 2.47 |
| M 831 5346 | 1954    | 188512084 |                   | 2.09 | M 895 5475 | 1953 |          | 7263540           | 2.47 |
| M 832 5347 | 1955-56 | 7262941   |                   | 2.47 | M 896 5476 | 1954 |          | 7264242           | 2.47 |
| M 833 5348 | 1955-56 | 7264211   |                   | 2.47 | M 897 5477 | 1956 |          | 7264128           | 2.47 |
| M 834 5349 | 1955-56 | 7264210   |                   | 2.47 | M 898 5478 | 1956 |          | 7266887           | 2.47 |
| M 835 5350 | 1956    | 188533457 |                   | 2.09 | M 899 5479 | 1957 |          | 7268347           | 2.47 |
| M 836 5351 | 1957    | 7265265   |                   | 2.47 | M 900 5480 | 1957 |          | 7269055           | 2.47 |
| M 837 5352 | 1955-56 | 7265220   |                   | 2.47 | M 901 5552 | 1958 |          | 7270679           | 2.47 |
| M 838 5353 | 1955-57 | 7265302   |                   | 2.47 |            |      |          |                   |      |
| M 839 5354 | 1955-56 | 7266193   |                   | 2.47 |            |      |          |                   |      |
| M 840 5355 | 1956    | 7268842   |                   | 2.47 |            |      |          |                   |      |
| M 841 5356 | 1957    | 7269211   |                   | 2.47 |            |      |          |                   |      |
| M 842 5357 | 1957    | 7269199   |                   | 2.47 |            |      |          |                   |      |
| M 843 5358 | 1957    | 7269186   |                   | 2.47 |            |      |          |                   |      |
| M 844 5359 | 1957    | 188540768 |                   | 2.47 |            |      |          |                   |      |
| M 845 5360 | 1957    | 188541128 |                   | 2.09 |            |      |          |                   |      |
| M 846 5361 | 1958    | 7270402   |                   | 2.47 |            |      |          |                   |      |
| M 847 5362 | 1958    | 7270450   |                   | 2.47 |            |      |          |                   |      |
| M 848 5363 | 1958    | 7270479   |                   | 2.47 |            |      |          |                   |      |
| M 849 5364 | 1959    | 7273302   |                   | 2.47 |            |      |          |                   |      |
| M 850 5365 | 1959    | 7273367   |                   | 2.47 |            |      |          |                   |      |

| CHRYSLER   |         |           |                   |      | PLYMOUTH   |      |          |                   |      |
|------------|---------|-----------|-------------------|------|------------|------|----------|-------------------|------|
| Stock No.  | Type    | Car Year  | Original Part No. | NET  | Stock No.  | Type | Car Year | Original Part No. | NET  |
| M 852 5435 | 1953    | 725557-10 |                   | 2.09 | M 902 5374 | 1952 |          | 188501616         | 1.38 |
| M 853 5436 | 1953-54 | 725557-13 |                   | 2.09 | M 903 5374 | 1953 |          | 188521635         | 1.38 |
| M 854 5378 | 1953    | 725557-15 |                   | 2.09 | M 904 5375 | 1953 |          | 33-5557-1         | 2.09 |
| M 854 5437 | 1955-56 | 725557-16 |                   | 2.09 | M 905 5376 | 1954 |          | 188530314         | 2.09 |
| M 855 5438 | 1956    | 725557-17 |                   | 2.09 | M 906 5377 | 1955 |          | 188532909         | 2.09 |
| M 856 5439 | 1957    | 725580-13 |                   | 2.47 | M 907 5378 | 1955 |          | 33-5557-15        | 2.09 |
|            |         |           |                   |      | M 908 5379 | 1956 |          | 188536152         | 2.09 |
|            |         |           |                   |      | M 909 5380 | 1956 |          | 188536152         | 2.09 |
|            |         |           |                   |      | M 910 5381 | 1956 |          | 33-5580-4         | 2.09 |
|            |         |           |                   |      | M 911 5382 | 1957 |          | 188540376         | 1.38 |
|            |         |           |                   |      | M 912 5383 | 1957 |          | 33-5580-12        | 2.09 |
|            |         |           |                   |      | M 913 5384 | 1958 |          | 188560415         | 1.38 |
|            |         |           |                   |      | M 914 5385 | 1958 |          | 33-5580-21        | 2.09 |
|            |         |           |                   |      | M 915 5386 | 1958 |          | 33-5557-14        | 2.09 |
|            |         |           |                   |      | M 916 5555 | 1959 |          | 188561364         | 2.09 |

| DESOTO     |         |           |                   |      | PONTIAC    |         |          |                   |      |
|------------|---------|-----------|-------------------|------|------------|---------|----------|-------------------|------|
| Stock No.  | Type    | Car Year  | Original Part No. | NET  | Stock No.  | Type    | Car Year | Original Part No. | NET  |
| M 857 5449 | 1954    | 188530623 |                   | 1.38 | M 81 5350  | 1955    |          | 188533457         | 2.09 |
| M 858 5450 | 1954    | 188530623 |                   | 2.09 | M 814 5359 | 1957    |          | 188540768         | 2.47 |
| M 859 5451 | 1957-58 | 188539819 |                   | 2.47 | M 91 5501  | 1949-50 |          | 7257708           | 2.09 |
|            |         |           |                   |      | M 920 5502 | 1951    |          | 7260043           | 2.47 |
|            |         |           |                   |      | M 921 5503 | 1953-54 |          | 7262482           | 2.47 |
|            |         |           |                   |      | M 922 5504 | 1955    |          | 7265495           | 2.47 |
|            |         |           |                   |      | M 923 5505 | 1956    |          | 7266308           | 2.47 |
|            |         |           |                   |      | M 924 5506 | 1957    |          | 7266138           | 2.47 |
|            |         |           |                   |      | M 925 5507 | 1957    |          | 7269638           | 2.47 |
|            |         |           |                   |      | M 926 5508 | 1958    |          | 7271445           | 2.47 |
|            |         |           |                   |      | M 927 5557 | 1959    |          | 7273623           | 2.47 |

| DODGE      |         |           |                   |      | SUDEBAKER  |         |          |                   |      |
|------------|---------|-----------|-------------------|------|------------|---------|----------|-------------------|------|
| Stock No.  | Type    | Car Year  | Original Part No. | NET  | Stock No.  | Type    | Car Year | Original Part No. | NET  |
| M 860 5459 | 1953    | 188521099 |                   | 2.09 | M 81 5350  | 1955    |          | 188533457         | 2.09 |
| M 861 5460 | 1954-55 | 188533033 |                   | 2.09 | M 814 5359 | 1957    |          | 188540768         | 2.47 |
| M 862 5461 | 1955-56 | 188533955 |                   | 2.09 | M 91 5501  | 1949-50 |          | 7257708           | 2.09 |
| M 863 5462 | 1955-56 | 188532955 |                   | 2.09 | M 920 5502 | 1951    |          | 7260043           | 2.47 |
| M 864 5463 | 1957    | 188532820 |                   | 2.47 | M 921 5503 | 1953-54 |          | 7262482           | 2.47 |
| M 865 5464 | 1958    | 188561317 |                   | 2.09 | M 922 5504 | 1955    |          | 7265495           | 2.47 |
| M 866 5564 | 1959    | 188561732 |                   | 2.09 | M 923 5505 | 1956    |          | 7266308           | 2.47 |

| FORD       |         |           |                   |      | SUDEBAKER  |         |          |                   |      |
|------------|---------|-----------|-------------------|------|------------|---------|----------|-------------------|------|
| Stock No.  | Type    | Car Year  | Original Part No. | NET  | Stock No.  | Type    | Car Year | Original Part No. | NET  |
| M 867 5308 | 1948-50 | 1222808   |                   | 2.09 | M 81 5350  | 1955    |          | 188533457         | 2.09 |
| M 868 5309 | 1950    | 188591266 |                   | 2.09 | M 814 5359 | 1957    |          | 188540768         | 2.47 |
| M 869 5310 | 1951    | 1219586-2 |                   | 2.09 | M 91 5501  | 1949-50 |          | 7257708           | 2.09 |
| M 870 5311 | 1951    | 188501153 |                   | 2.09 | M 920 5502 | 1951    |          | 7260043           | 2.47 |

| ERIES PPQ PUSH-PULL SWITCH CONTROLS |         |          |                   |      | SUDEBAKER |         |          |                   |      |
|-------------------------------------|---------|----------|-------------------|------|-----------|---------|----------|-------------------|------|
| Stock No.                           | Type    | Car Year | Original Part No. | NET  | Stock No. | Type    | Car Year | Original Part No. | NET  |
| M 661                               | 19-133x | 500K†    | 250K              |      | M 650     | 11-113  | 100K     |                   |      |
| M 662                               | 19-133x | 1M†      | 250K              |      | M 651     | 11-113  | 200K†    |                   |      |
| M 663                               | 19-133x | 1M†      | 500K              |      | M 652     | 13-133  | 200K†    |                   |      |
| M 664                               | 18-137x | 1M†      | 100K              |      | M 653     | 13-133  | 500K†    |                   |      |
| M 665                               | 18-137x | 2M†      | 1M                |      | M 654     | 11-113  | 1M†      |                   |      |
| M 666                               | 18-140x | 3M†      | 1.5M              |      | M 655     | 13-137  | 1M†      |                   |      |
| ET C66                              |         |          |                   | 1.74 | NET C66   |         |          |                   | 1.32 |
| M 656                               | 11-137  | 1M†      |                   |      | M 665     | 18-137x | 1M†      | 100K              |      |
| M 657                               | 13-137  | 1M†      |                   |      | M 666     | 18-137x | 1M†      | 250K              |      |
| M 658                               | 13-137  | 2M†      |                   |      |           |         |          |                   |      |
| ET C66                              |         |          |                   | 1.32 | NET C66   |         |          |                   | 1.74 |



Controls with SPST switches that operate by moving shaft in and out, reserved setting. Knurled, flattened, recessed shafts are 2 1/4" long (1 1/4" for 1/2" shaft) when moved out 1/2". 1/4"-long bushing, 3/16" body dia. \* tap res. † linear taper, 3/16" log., \* tapped log. (level control for bass compensation), † special. Shpg. wt. 3 oz.

## EXACT-DUPLICATE TV CONTROLS

A wide selection of exact-duplicate TV controls for replacement use. All duplicate the originals in every detail—even the switch is duplicated if one is present on the original control. Shpg. wt. 3 oz.



| ADMIRAL       |          |          |     |  | MOTOROLA (Cont'd) |             |          |     |  |
|---------------|----------|----------|-----|--|-------------------|-------------|----------|-----|--|
| Stock No.     | Type     | Mr's No. | NET |  | Stock No.         | Type        | Mr's No. | NET |  |
| M 700 01-154  | 75811-1  | 2.53     |     |  | M 760 01-590      | 188733221   | 3.33     |     |  |
| M 701 01-104  | 75811-2  | 2.53     |     |  | M 761 01-591      | 188733977   | 3.33     |     |  |
| M 702 01-194  | 75811-3  | 3.53     |     |  | M 762 01-872      | 188736125   | 3.53     |     |  |
| M 703 01-120  | 75811-4  | 2.53     |     |  | M 763 01-876      | 188736127   | 2.94     |     |  |
| M 704 01-112  | 75811-5  | 2.53     |     |  | M 764 01-878      | 188741997-C | 2.94     |     |  |
| M 705 01-196  | 75811-7  | 2.94     |     |  | M 765 01-260      | 188739166   | 3.94     |     |  |
| M 706 01-197  | 75811-9  | 2.53     |     |  | M 766 01-393      | 188739087   | 3.12     |     |  |
| M 707 01-196  | 75811-10 | 2.53     |     |  | M 767 01-756      | 188739083   | 2.02     |     |  |
| M 708 01-195  | 75811-11 | 3.53     |     |  | M 768 01-342      | 188739087   | 2.02     |     |  |
| M 709 01-195  | 75811-12 | 3.53     |     |  | M 769 01-758      | 188739087   | 2.02     |     |  |
| M 710 01-195  | 75811-13 | 3.12     |     |  | M 770 01-261      | 188739083   | 2.53     |     |  |
| M 711 01-195  | 75811-14 | 3.12     |     |  | M 771 01-262      | 188739083   | 2.53     |     |  |
| M 712 01-195  | 75811-15 | 3.12     |     |  | M 772 01-757      | 188739083   | 3.50     |     |  |
| M 713 01-195  | 75811-16 | 3.12     |     |  | M 773 01-395      | 188739083   | 3.50     |     |  |
| M 714 01-195  | 75811-17 | 3.12     |     |  | M 774 01-396      | 188739083   | 3.50     |     |  |
| M 715 01-195  | 75811-18 | 3.12     |     |  | M 775 01-120      | 188739824   | 3.53     |     |  |
| M 716 01-1883 | 75811-31 | 3.53     |     |  | M 776 01-121      | 188740068   | 2.94     |     |  |
| M 717 01-1201 | 75812-2  | 3.53     |     |  | M 777 01-124      | 188742673-C | 3.53     |     |  |
| M 718 01-738  | 75812-11 | 3.53     |     |  | M 778 01-1245     | 188742673-C | 3.53     |     |  |
| M 719 01-739  | 75812-2  | 3.53     |     |  | M 779 01-1246     | 188743644-D | 3.53     |     |  |
| M 720 01-740  | 75812-3  | 3.41     |     |  | M 780 01-1247     | 188743967-A | 3.44     |     |  |
| M 721 01-741  | 75812-4  | 3.41     |     |  | M 781 01-1248     | 188746764-D | 3.44     |     |  |
| M 722 01-742  | 75812-5  | 3.41     |     |  | M 782 01-1249     | 188748009-D | 3.44     |     |  |



Q CONTROLS WITH UNIVERSAL SHAFTS

Knurled, flattened and slotted, 3" universal shaft can be cut to desired length. 1/8" body dia. 1/4" bushing, 1/4" long. Smooth, extremely quiet operation. \*Includes 270 ohm, 1/2-watt bias resistor. Less switches (below). See taper explanations below. Av. ship. wt., 4 oz.

| Stock No. | Type     | Ohms | Taper |
|-----------|----------|------|-------|
| 30 M 395  | Q11-201  | 250  | A     |
| 30 M 300  | Q11-103  | 500  | A     |
| 30 M 377  | Q11-105  | 750  | A     |
| 30 M 441  | Q11-105  | 750  | P     |
| 30 M 301  | Q11-108  | 1000 | A     |
| 30 M 379  | Q17-108  | 1000 | P     |
| 30 M 874  | Q17-110  | 2000 | Q     |
| 30 M 442  | Q11-109  | 1500 | A     |
| 30 M 302  | Q11-109  | 1500 | Q     |
| 30 M 382  | Q11-110  | 2000 | A     |
| 30 M 373  | Q13-111  | 2500 | C     |
| 30 M 381  | Q17-111  | 2500 | Q     |
| 30 M 303  | Q11-112  | 3000 | A     |
| 30 M 382  | Q17-112  | 3000 | Q     |
| 30 M 304  | Q11-114  | 5000 | A     |
| 30 M 383  | Q13-114  | 5000 | C     |
| 30 M 384  | Q17-114  | 5000 | Q     |
| 30 M 305  | Q11-115  | 7500 | A     |
| 30 M 306  | Q11-116  | 10K  | A     |
| 30 M 307  | Q13-116  | 10K  | C     |
| 30 M 308  | Q14-116* | 10K  | D     |
| 30 M 385  | Q17-116  | 10K  | Q     |
| 30 M 309  | Q11-119  | 20K  | A     |
| 30 M 310  | Q16-119* | 20K  | Spec. |
| 30 M 311  | Q11-120  | 25K  | A     |
| 30 M 443  | Q13-120  | 25K  | C     |
| 30 M 312  | Q14-120* | 25K  | D     |
| 30 M 313  | Q11-121  | 30K  | A     |
| 30 M 396  | Q11-122  | 35K  | C     |
| 30 M 314  | Q11-123  | 50K  | A     |
| 30 M 315  | Q13-123  | 50K  | C     |
| 30 M 316  | Q14-123* | 50K  | D     |
| 30 M 317  | Q11-125  | 75K  | A     |
| 30 M 317  | Q11-128  | 100K | A     |

| Stock No. | Type    | Ohms    | Taper |
|-----------|---------|---------|-------|
| 30 M 318  | Q13-128 | 100K    | C     |
| 30 M 388  | Q11-228 | 125K    | A     |
| 30 M 875  | Q11-328 | 150K    | A     |
| 30 M 444  | Q13-328 | 150K    | P     |
| 30 M 374  | Q11-123 | 200K    | A     |
| 30 M 319  | Q11-130 | 250K    | A     |
| 30 M 320  | Q13-130 | 250K    | C     |
| 30 M 445  | Q11-131 | 300K    | A     |
| 30 M 876  | Q11-132 | 350K    | C     |
| 30 M 321  | Q13-132 | 350K    | C     |
| 30 M 322  | Q11-133 | 500K    | A     |
| 30 M 323  | Q13-133 | 500K    | C     |
| 30 M 324  | Q14-133 | 500K    | C     |
| 30 M 397  | Q17-133 | 500K    | Q     |
| 30 M 398  | Q11-134 | 600K    | A     |
| 30 M 390  | Q11-136 | 750K    | A     |
| 30 M 325  | Q11-137 | 1 meg   | A     |
| 30 M 326  | Q13-137 | 1 meg   | C     |
| 30 M 327  | Q14-137 | 1 meg   | D     |
| 30 M 877  | Q17-137 | 1 meg   | Q     |
| 30 M 328  | Q11-138 | 1.5 meg | A     |
| 30 M 329  | Q11-139 | 2 meg   | A     |
| 30 M 330  | Q12-139 | 2 meg   | A     |
| 30 M 399  | Q17-139 | 2 meg   | Q     |
| 30 M 331  | Q11-239 | 2.5 meg | A     |
| 30 M 332  | Q11-140 | 3 meg   | A     |
| 30 M 333  | Q13-140 | 3 meg   | C     |
| 30 M 446  | Q17-140 | 3 meg   | A     |
| 30 M 334  | Q11-141 | 5 meg   | A     |
| 30 M 287  | Q12-141 | 5 meg   | Spec. |
| 30 M 392  | Q13-141 | 5 meg   | C     |
| 30 M 393  | Q17-141 | 5 meg   | Q     |
| 30 M 394  | Q11-142 | 7.5 meg | A     |
| 30 M 335  | Q11-143 | 10 meg  | A     |

NET EACH.....1.00

TAPPED Q CONTROLS WITH UNIVERSAL SHAFTS

| Stock No. | Type      | Meg  | Taps, Ohms | Taper |
|-----------|-----------|------|------------|-------|
| 30 M 879  | Q13-118X  | .015 | 10K        | Spec. |
| 30 M 386  | Q13-118XX | .015 | 5K/10K     | Spec. |
| 30 M 337  | Q18-130X  | .25  | 60K        | Spec. |
| 30 M 338  | Q13-130X  | .25  | 125K       | Spec. |
| 30 M 340  | Q18-132X  | .35  | 75K        | Spec. |
| 30 M 342  | Q17-133X  | .5   | 25K        | Spec. |
| 30 M 343  | Q18-133X  | .5   | 25K        | Spec. |
| 30 M 341  | Q13-133X  | .5   | 125K       | Spec. |
| 30 M 344  | Q13-133X  | .5   | 250K       | Spec. |
| 30 M 345  | Q18-133X  | .5   | 10K/200K   | Spec. |
| 30 M 346  | Q13-137X  | 1.0  | 250K       | Spec. |

| Stock No. | Type      | Mega | Taps, Ohms    | Taper |
|-----------|-----------|------|---------------|-------|
| 30 M 349  | Q18-137X  | 1.0  | 100K          | Spec. |
| 30 M 350  | Q18-137XX | 1.0  | 250K / 5 Meg. | Spec. |
| 30 M 351  | Q19-137X  | 1.0  | .5 Meg        | Spec. |
| 30 M 352  | QVC-539X  | 1.0  | .5 meg        | Spec. |
| 30 M 391  | Q13-138X  | 1.5  | .25 meg       | Spec. |
| 30 M 353  | Q17-139X  | 2.0  | 150K          | Spec. |
| 30 M 357  | Q18-139XX | 2.0  | 250K / 5 Meg  | Spec. |
| 30 M 354  | Q13-139X  | 2.0  | 5Meg/1Meg     | Spec. |
| 30 M 353  | Q13-139X  | 2.0  | .5 Meg        | H     |
| 30 M 356  | Q18-139X  | 2.0  | 1 Meg         | Spec. |
| 30 M 449  | Q18-140X  | 3.0  | 1.5 Meg       | Spec. |

NET EACH.....1.41

TYPE 76 ATTACHABLE SWITCHES FOR Q CONTROLS

Blue bakelite enclosure. Easily attached. Type 76-4 has 4 on-off break-one for TV spot killing. U.L. Approved. Ship. wt., 2 oz.

30 M 359. Type 76-1. SPST. NET.....59¢  
30 M 591. Type 76-2. SPST. NET.....59¢  
30 M 888. Type 76-4. SPDT. NET.....73¢

EXPLANATION OF TAPERS

**Taper A.** Linear.  
**Taper C.** Logarithmic curve for audio circuit control or antenna circuit control.  
**Taper D.** Tapered at both ends to provide control of grid bias and antenna circuit. Used where control of grid bias is of prime importance in controlling gain.

**Taper H.** Tapped logarithmic curve. Audio level control for bass compensation.  
**Taper P.** Semi-logarithmic curve with reverse taper. For use in contrast and picture control circuits in television.  
**Taper Q.** Same applications as Taper P above, but has slightly steeper curve.

L AND T-PAD SPEAKER CONTROLS

Handle 10 watts audio. L pads provide constant input imped.; T pads, both input and output imped. Dia. 1 1/4"; L pads 1 1/2" deep behind panel; T pads, 1 1/2". 3/4" bushing, 7/8" long. With knob. Av. ship. wt., 6 oz.

| Stock No. | Type  | Pad | Ohms | EACH |
|-----------|-------|-----|------|------|
| 30 M 880  | LP4   | L   | 4    |      |
| 30 M 881  | LP8   | L   | 8    |      |
| 30 M 882  | LP15  | L   | 15   | 3.15 |
| 30 M 883  | LP500 | L   | 500  |      |

| Stock No. | Type  | Pad | Ohms | EACH |
|-----------|-------|-----|------|------|
| 30 M 884  | TP4   | T   | 4    |      |
| 30 M 885  | TP8   | T   | 8    |      |
| 30 M 886  | TP15  | T   | 15   | 3.56 |
| 30 M 887  | TP500 | T   | 500  |      |

TV HEIGHT CONTROLS

Quality potentiometers for controlling picture height (vertical size) in TV receivers. Have same specs as stock original equipment. 1-watt power rating; 750 v. max. between outer terminals. Nylon shaft slotted and knurled; designed for easy shortening when required. Easily installed in any set. Tab mtg. Dia., 1/16". Wt., 4 oz.

| Stock No. | Type | Megohms | Stock No. | Type | Megohms |
|-----------|------|---------|-----------|------|---------|
| 30 M 861  | 1    | 2.0     | 30 M 864  | 4    | 4.0     |
| 30 M 862  | 2    | 5.0     | 30 M 865  | 5    | 5.0     |
| 30 M 863  | 3    | 3.0     | 30 M 866  | 6    | 7.5     |

NET EACH.....2.50



TV SIGNAL ATTENUATOR

Type QJ-3. Economically priced L-pad television signal attenuator. For use with sets having 300-ohm twin tube antenna input. Minimizes interstation interference, definition loss and sound bars caused by excessive signal strength. Diminishes buzz or hum due to high signal level in intercarrier systems. Reduces overloading effects in strong signal area. In many cases, corrects or reduces horizontal or vertical jitter; also picture and sound break-over. Very useful device to simulate fringe-area signals. A nearly constant 300-ohm load is maintained on antenna lead-in. With mtg. bracket and instructions. 7/4" diameter, 1" deep. Shaft: 3/8" diameter, 1/2" long. Wt., 8 oz.  
29 M 915. NET.....2.59

UNIVERSAL WIRE-WOUND CONTROLS



Rugged 4-watt controls. All have linear taper, except: types with L after focus, and types with R have right-hand logarithmic taper for picture contrast. Rotation, 300°. 1 1/4" dia., 3/32" deep; threaded bushing is 3/4" dia. and 3/4" long. Nickel-plated brass shafts, 1/4" dia. Type WP has round shaft, 3/4" long. Type WPK has 3" long "Knob Master" shaft—fits a wide variety of knobs. Type WP has 1/2" long shaft, knurled at end and slotted. Specify Type and Ohms. Wt., 4 oz.

TYPE WPK CONTROLS

| Ohms | Type | WPK   | Ohms  | Ohms   |
|------|------|-------|-------|--------|
| 10   | 300  | 750R  | 2000L | 5000L  |
| 20   | 400  | 1000  | 2250L | 6000   |
| 30   | 500  | 1350  | 2500  | 6000L  |
| 50   | 650  | 1350R | 2500R | 7500   |
| 100  | 650  | 1500L | 3000  | 7500L  |
| 200  | 750  | 1500L | 4000L | 10,000 |
| 250  | 750L | 2000  | 5000  |        |

30 MM 216. NET EACH.....1.29

12,500 | 15,000 | 20,000 | 25,000

30 MM 199. NET EACH.....1.56

30,000 | 40,000 | 50,000

30 MM 856. NET EACH.....1.79

TYPE WPS CONTROLS

|     |      |      |       |       |
|-----|------|------|-------|-------|
| 25  | 500  | 1500 | 2250L | 4000  |
| 40  | 500L | 2000 | 2500  | 4000L |
| 60  | 1000 | 2250 | 3000  | 5000  |
| 250 |      |      |       |       |

30 MM 217. NET EACH.....1.29

TYPE WP CONTROLS

|    |    |     |      |        |
|----|----|-----|------|--------|
| 2  | 15 | 60  | 400  | 2500   |
| 3  | 20 | 75  | 500  | 3000   |
| 5  | 25 | 100 | 750  | 4000   |
| 6  | 30 | 200 | 1000 | 5000   |
| 10 | 50 | 250 | 1500 | 7500   |
| 10 | 50 | 300 | 2000 | 10,000 |

30 MM 215. NET EACH.....1.29

15,000 | 20,000 | 25,000

30 MM 857. NET EACH.....1.56

30,000 | 40,000 | 50,000

30 MM 858. NET EACH.....1.79

TYPE WPRL CONTROLS

A new line of controls with screw-driver slot shaft, 1/4" dia. and approximately 1/2" long from mounting face. With 3/4" locking-type bushing and locking nut. Linear taper. Specify Type and Ohms. Ship. wt., 4 oz.

| Ohms | Ohms | Ohms | Ohms | Ohms   |
|------|------|------|------|--------|
| 2    | 15   | 60   | 400  | 2500   |
| 3    | 20   | 75   | 500  | 3000   |
| 5    | 25   | 100  | 750  | 4000   |
| 6    | 30   | 200  | 1000 | 5000   |
| 8    | 40   | 250  | 1500 | 7500   |
| 10   | 50   | 300  | 2000 | 10,000 |

30 MM 859. NET EACH.....1.53

15,000 | 20,000 | 25,000

30 MM 889. NET EACH.....1.79

30,000 | 40,000 | 50,000

30 MM 890. NET EACH.....2.00

SWITCHES FOR ABOVE CONTROLS

Easily attached switches for WPK, WPS, WP and WPRL controls above. Ship. wt., 2 oz.  
30 M 218. Type 76-11. SPST. NET.....73¢  
30 M 219. Type 76-12. DPST. EACH.....73¢

TYPE WM MULTISECTION CONTROLS

Ruggedly constructed 4-watt "add-on" control sections. Can be attached to the WPK, WPS, WP or WPRL controls, listed above, to form dual control units. All have linear taper, except type 7500L which has left-hand logarithmic taper for TV focus. 3/4" deep. Specify Type and Ohms. Ship. wt., 2 oz.

| Ohms | Ohms | Ohms | Ohms | Ohms   |
|------|------|------|------|--------|
| 50   | 250  | 1500 | 3000 | 7500L  |
| 100  | 500  | 2000 | 5000 | 10,000 |
| 200  | 1000 | 2500 |      |        |

30 MM 860. NET EACH.....1.29



# Ohmite Rheostats and "AB" Controls

## MIREWOUND RHEOSTATS

ty wirewound rheostats for smooth, depend-  
control of industrial and other electronic  
s. Wound on solid ceramic cores. Each  
core and base is bonded by vitreous enamel.  
tact contact brush assures perfect contact.  
er-graphite contact brush, except "all-  
nate" contact brush. Ratings are at full set-  
Types H, J, K and L mount on panels up  
" thick; Type N on panels up to 1 1/4" thick.  
ifications: Type H, dia. 1 1/4", depth behind  
1 1/4"; Type J, dia. 2 1/4", depth behind panel 1 1/4"; Type K, dia.  
1 1/4", depth behind panel 1 1/4"; Type L, dia. 2 1/4", depth behind panel 2 1/4";  
N, dia. 6", depth behind panel, 2 1/4". All are less knobs (see listing  
v Type N). Av. shpg. wt., 10 oz.



## "AB" TWO-WATT POTENTIOMETERS



Sealed element, carbon slider for noise-free operation. Size: 1 1/2" dia. x  
3/8" except Type CCU, 1 1/2" x 1 1/4". 3/8" hole mtg. to 1/4" panels. 1/4" shaft,  
1/2" long except CCU locking slotted shaft. Linear taper except "C" clockwise  
log, "C" counter-clockwise log. = 10% except "C" = 20%. 5 oz.

### 25 WATT—TYPE H

| Stock No. | Mfr's Type | Res. Ohms | NET EACH | Stock No. | Mfr's Type | Res. Ohms | NET EACH |
|-----------|------------|-----------|----------|-----------|------------|-----------|----------|
| M 700     | 0140*      | 1         | 4.54     | M 712     | 0152       | 125       | 4.03     |
| M 701     | 0141       | 2         |          | M 713     | 0153       | 175       |          |
| M 702     | 0142       | 3         |          | M 714     | 0154       | 250       |          |
| M 703     | 0143       | 6         |          | M 715     | 0155       | 350       |          |
| M 704     | 0144       | 8         |          | M 716     | 0156       | 500       |          |
| M 705     | 0145       | 10        |          | M 717     | 0157       | 750       |          |
| M 706     | 0146       | 15        | 4.03     | M 718     | 0158       | 1000      | 4.54     |
| M 707     | 0147       | 25        |          | M 719     | 0159       | 1500      |          |
| M 708     | 0148       | 35        |          | M 720     | 0160       | 2500      |          |
| M 709     | 0149       | 50        |          | M 721     | 0161       | 3500      |          |
| M 710     | 0150       | 75        |          | M 722     | 0162       | 5000      |          |
| M 711     | 0151       | 100       |          |           |            |           |          |

### 50 WATT—TYPE J

| Stock No. | Mfr's Type | Res. Ohms | NET EACH | Stock No. | Mfr's Type | Res. Ohms | NET EACH |
|-----------|------------|-----------|----------|-----------|------------|-----------|----------|
| M 723     | 0308*      | 0.5       | 5.05     | M 736     | 0321       | 150       | 4.54     |
| M 724     | 0309*      | 1         |          | M 737     | 0322       | 225       |          |
| M 725     | 0310*      | 2         |          | M 738     | 0323       | 300       |          |
| M 726     | 0311       | 4         |          | M 739     | 0324       | 500       |          |
| M 727     | 0312       | 6         |          | M 740     | 0325       | 800       | 4.80     |
| M 728     | 0313       | 8         | 4.54     | M 741     | 0326       | 1000      |          |
| M 729     | 0314       | 12        |          | M 742     | 0327       | 1600      |          |
| M 730     | 0315       | 16        |          | M 743     | 0328       | 2500      |          |
| M 731     | 0316       | 22        |          | M 744     | 0329       | 3500      |          |
| M 732     | 0317       | 35        | 5.05     | M 745     | 0330       | 5000      | 5.05     |
| M 733     | 0318       | 50        |          | M 746     | 0331       | 8000      |          |
| M 734     | 0319       | 75        |          | M 747     | 0332       | 10,000    |          |
| M 735     | 0320       | 125       |          |           |            |           |          |

### 100 WATT—TYPE K

| Stock No. | Mfr's Type | Res. Ohms | NET EACH | Stock No. | Mfr's Type | Res. Ohms | NET EACH |
|-----------|------------|-----------|----------|-----------|------------|-----------|----------|
| M 748     | 0440*      | 0.5       | 7.57     | M 760     | 0452       | 200       | 7.07     |
| M 749     | 0441*      | 1         |          | M 761     | 0453       | 400       |          |
| M 750     | 0442*      | 2         |          | M 762     | 0454       | 600       |          |
| M 751     | 0443*      | 3         |          | M 763     | 0455       | 500       |          |
| M 752     | 0444*      | 5         |          | M 764     | 0456       | 750       |          |
| M 753     | 0445       | 7.5       | 7.57     | M 765     | 0457       | 1000      | 7.57     |
| M 754     | 0446       | 10        |          | M 766     | 0458       | 1500      |          |
| M 755     | 0447       | 15        |          | M 767     | 0459       | 2000      |          |
| M 756     | 0448       | 25        |          | M 768     | 0460       | 2500      |          |
| M 757     | 0449       | 50        | 7.07     | M 769     | 0461       | 5000      | 8.08     |
| M 758     | 0450       | 75        |          | M 770     | 0462       | 7500      |          |
| M 759     | 0451       | 100       |          | M 771     | 0463       | 10,000    |          |

### 150 WATT—TYPE L

| Stock No. | Mfr's Type | Res. Ohms | NET EACH | Stock No. | Mfr's Type | Res. Ohms | NET EACH |
|-----------|------------|-----------|----------|-----------|------------|-----------|----------|
| M 772     | 0524*      | 0.5       | 9.58     | M 795     | 0537       | 150       | 9.07     |
| M 773     | 0525*      | 1         |          | M 796     | 0538       | 200       |          |
| M 774     | 0526*      | 2         |          | M 797     | 0539       | 250       |          |
| M 775     | 0527*      | 3         |          | M 798     | 0540       | 300       |          |
| M 776     | 0528*      | 5         |          | M 799     | 0541       | 350       |          |
| M 777     | 0529*      | 7.5       | 9.07     | M 790     | 0542       | 750       | 9.58     |
| M 778     | 0530       | 10        |          | M 791     | 0543       | 1250      |          |
| M 779     | 0531       | 15        |          | M 792     | 0544       | 1800      |          |
| M 780     | 0532       | 25        |          | M 793     | 0545       | 2250      |          |
| M 781     | 0533       | 35        |          | M 794     | 0546       | 3000      | 10.09    |
| M 782     | 0534       | 50        | 9.07     | M 795     | 0547       | 4500      |          |
| M 783     | 0535       | 75        |          | M 796     | 0548       | 5000      |          |
| M 784     | 0536       | 100       |          | M 797     | 0549       | 10,000    |          |

### 300 WATT—TYPE N

| Stock No. | Mfr's Type | Res. Ohms | NET EACH | Stock No. | Mfr's Type | Res. Ohms | NET EACH |
|-----------|------------|-----------|----------|-----------|------------|-----------|----------|
| M 798     | 0650*      | 1         | 14.98    | M 809     | 0661       | 100       | 14.98    |
| M 799     | 0651*      | 2         |          | M 810     | 0662       | 150       |          |
| M 800     | 0652*      | 3         |          | M 811     | 0663       | 200       |          |
| M 801     | 0653*      | 4         |          | M 812     | 0664       | 250       |          |
| M 802     | 0654*      | 5         |          | M 813     | 0665       | 400       | 14.98    |
| M 803     | 0655*      | 7.5       | 14.98    | M 814     | 0666       | 700       |          |
| M 804     | 0656*      | 10        |          | M 815     | 0667       | 900       |          |
| M 805     | 0657*      | 15        |          | M 816     | 0668       | 1200      |          |
| M 806     | 0658       | 25        |          | M 817     | 0669       | 1500      |          |
| M 807     | 0659       | 50        | 14.98    | M 818     | 0670       | 2500      | 14.98    |
| M 808     | 0660       | 75        |          | M 819     | 0671       | 3500      |          |

### KNOBES FOR RHEOSTATS

ack bakelite knobs for use with Ohmite rheostats. All are fluted ex-  
\* which is round. Av. shpg. wt., 5 oz.

| Stock No. | For Rheostat Type | NET EACH | Stock No. | For Rheostat Type | NET EACH |
|-----------|-------------------|----------|-----------|-------------------|----------|
| M 417     | H, J, K, L        | .28      | M 419     | E                 | .28      |
| M 418     | N                 | 1.14     |           |                   |          |

pe 5000 Dial Plate. For Type H, J, K and L. 2 1/2" diameter. Hand-  
nely finished with bright figures and lines on etched black back-  
nd. 0-100 scale. Shpg. wt., 2 oz.

M 405. NET.....28c

pe 4001. Dial Plate. For Type N rheostat, above. 5 1/2" diameter.

M 402. NET.....69c

### TYPES CA, CB, CU

| Stock No. | Type    | Ohms    | EACH | Stock No. | Type    | Ohms     | EACH |
|-----------|---------|---------|------|-----------|---------|----------|------|
| M 500     | CU5001  | 50      | 1.91 | M 511     | CU5031  | 50,000   | 1.91 |
| M 501     | CU1011  | 100     |      | M 512     | CB5031† | 50,000   | 2.20 |
| M 506     | CU1511  | 150     |      | M 504     | CU7531  | 75,000   | 1.91 |
| M 502     | CU2511  | 250     |      | M 513     | CU1041  | 100,000  | 1.91 |
| M 507     | CU3511  | 350     |      | M 514     | CA1941* | 100,000  | 2.20 |
| M 503     | CU5011  | 500     | 1.91 | M 505     | CU1541  | 150,000  | 1.91 |
| M 508     | CU7511  | 750     |      | M 515     | CU2541  | 250,000  | 1.91 |
| M 509     | CU1021  | 1000    |      | M 516     | CA2541* | 250,000  | 2.20 |
| M 509     | CU1521  | 1500    |      | M 506     | CU3541  | 350,000  | 1.91 |
| M 505     | CU2521  | 2500    |      | M 517     | CU5041  | 500,000  | 1.91 |
| M 506     | CU3521  | 3500    | 1.91 | M 507     | CU7542  | 750,000  | 1.91 |
| M 506     | CU5021  | 5000    | 1.91 | M 518     | CU1052  | 1 Meg†   | 1.91 |
| M 507     | CU7521  | 7500    | 1.91 | M 520     | CA1052* | 1 Meg†   | 2.20 |
| M 507     | CU1031  | 10,000  | 1.91 | M 508     | CU1552  | 1.5 Meg† | 1.91 |
| M 508     | CU1031† | 10,000  | 2.20 | M 548     | CU2052  | 2 Meg†   | 1.91 |
| M 502     | CU1531  | 15,000  | 1.91 | M 521     | CU2552  | 2.5 Meg† | 1.91 |
| M 509     | CU2531  | 25,000  | 1.91 | M 522     | CA2552* | 2.5 Meg† | 2.20 |
| M 510     | CU2531† | 25,000  | 2.20 | M 509     | CU3552  | 3.5 Meg† | 1.91 |
| M 503     | CU3531  | 35,000  | 1.91 | M 523     | CU5052  | 5 Meg†   | 1.91 |
| M 518     | CA5041* | 500,000 | 2.20 |           |         |          |      |

### TYPE CU—WITH LOCKING SHAFT

| Stock No. | Type   | Ohms   | EACH | Stock No. | Type   | Ohms     | EACH |
|-----------|--------|--------|------|-----------|--------|----------|------|
| M 525     | CU5001 | 50     | 2.50 | M 534     | CU1031 | 50,000   | 2.50 |
| M 526     | CU1011 | 100    |      | M 535     | CU1041 | 1 Meg    |      |
| M 527     | CU2511 | 250    |      | M 536     | CU1241 | 25 Meg   |      |
| M 528     | CU5011 | 500    |      | M 537     | CU1041 | 1 Meg    |      |
| M 529     | CU1021 | 1000   |      | M 538     | CU1052 | 1 Meg†   |      |
| M 530     | CU2521 | 2500   | 2.50 | M 540     | CU1052 | 2.0 Meg† | 2.50 |
| M 531     | CU5021 | 5000   |      | M 539     | CU2552 | 2.5 Meg† |      |
| M 532     | CU1031 | 10,000 |      | M 540     | CU1052 | 2.5 Meg† |      |
| M 533     | CU2531 | 25,000 |      |           |        |          |      |

### TYPE CCU DUALS

| Stock No. | Type    | Ohms    | EACH | Stock No. | Type    | Ohms    | EACH |
|-----------|---------|---------|------|-----------|---------|---------|------|
| M 541     | CCU1031 | 10,000  | 5.73 | M 545     | CCU2541 | 250,000 | 5.73 |
| M 542     | CCU2531 | 25,000  |      | M 546     | CCU5041 | 500,000 |      |
| M 543     | CCU5031 | 50,000  |      | M 547     | CCU1052 | 1 Meg†  |      |
| M 544     | CCU1041 | 100,000 |      |           |         |         |      |

28 M 524. CS-1 SPST Switch. For AB pots. 3 oz. NET.....65¢

### TYPE E 12 1/2-WATT MINIATURE RHEOSTATS

Extremely compact, 12 1/2-watt power rheostats for limited  
space applications. Rugged, all ceramic and metal  
construction. Built to operate at maximum hot spot  
temperature of 340°F. C. Pivotco, universal-acti-  
metal-graphite contact brushes provide perfect contact.  
Resistance tolerance is ± 10%. Only 3/8" in diameter.  
Require 1/8" behind panel. Have 1/4" by 32 threaded  
bushing 1/4" long. 1/8" diameter shaft is 3/4" long. Less  
knobs (below, left). Av. shpg. wt., 2 oz.



| Stock No. | Type | Ohms | EACH | Stock No. | Type | Ohms | EACH |
|-----------|------|------|------|-----------|------|------|------|
| M 820     | 0101 | 1    | 4.54 | M 832     | 0113 | 125  | 4.03 |
| M 821     | 0102 | 2    | 4.54 | M 833     | 0114 | 175  | 4.03 |
| M 822     | 0103 | 3    | 4.54 | M 834     | 0115 | 250  | 4.03 |
| M 823     | 0104 | 6    | 4.54 | M 835     | 0116 | 350  | 4.03 |
| M 824     | 0105 | 8    | 4.54 | M 836     | 0117 | 500  | 4.03 |
| M 825     | 0106 | 10   | 4.54 | M 837     | 0118 | 750  | 4.03 |
| M 826     | 0107 | 15   | 4.03 | M 838     | 0119 | 1000 | 4.54 |
| M 827     | 0108 | 25   | 4.03 | M 839     | 0120 | 1500 | 4.54 |
| M 828     | 0109 | 35   | 4.03 | M 840     | 0121 | 2500 | 4.54 |
| M 829     | 0110 | 50   | 4.03 | M 841     | 0122 | 3500 | 4.80 |
| M 830     | 0111 | 75   | 4.03 | M 842     | 0123 | 5000 | 4.80 |
| M 831     | 0112 | 100  | 4.03 |           |      |      |      |

### TANDEM COUPLING KITS

Kits for assembling Ohmite rheostats in tandem.  
Each kit consists of a steel "U" frame, mica washer,  
coupling, Allen wrench and complete instructions.



Type 6533 Tandem Coupling Kit. Large frame  
designed for Type K or L rheostats. Will accommodate  
Model II or J in rear position. Maximum panel thick-  
ness 1/4". Frame is 2 1/2" long, 1 1/4" wide. Wt., 4 oz.

74 M 409. NET.....2.46

Type 6532 Tandem Coupling Kit. Small frame designed for Type H  
or J, will accommodate Type K or L in the rear position. Maximum  
panel thickness, 3/8". Frame is 2 1/2" long and 1 1/4" wide. 5 oz.

74 M 408. NET.....1.97

Type 6591 Tandem Coupling Kit. Couples two Type E rheostats.  
Max. panel thickness 1/8". Frame 1 1/2" long and 1/2" wide. 5 oz.

28 M 595. NET.....1.97

# Mailory Controls

## SERIES U MIDGETROL CONTROLS



length. Two spline-shank knob adapters furnished with each Midgetrol (see illustration above). With nut and lock washer.  $\frac{1}{8}$ " dia. brass shaft.  $2\frac{1}{4}$ " long,  $\frac{1}{4}$ " dia. Less switch (see below). Shpg. wt., 3 oz.

| Stock No. | Type   | Ohms | Taper* | Stock No. | Type  | Ohms    | Taper* |
|-----------|--------|------|--------|-----------|-------|---------|--------|
| 29 M 714  | U-1    | 100  | 2      | 29 M 764  | U-36  | 75K     | 1      |
| 29 M 715  | U-52R  | 500  | 2      | 29 M 765  | U-36  | 100K    | 1      |
| 29 M 709  | U-2    | 500  | 4      | 29 M 766  | U-40  | 100K    | 1      |
| 29 M 638  | U-751R | 750  | 2      | 29 M 767  | U-41  | 100K    | 4      |
| 29 M 796  | U-3    | 1K   | 2      | 29 M 795  | U-41S | 125K    | 4      |
| 29 M 785  | U-4    | 1K   | 4      | 29 M 768  | U-42  | 150K    | 4      |
| 29 M 797  | U-5    | 1500 | 2      | 29 M 769  | U-43  | 200K    | 1      |
| 29 M 786  | U-6    | 2K   | 4      | 29 M 770  | U-44  | 250K    | 1      |
| 29 M 798  | U-7    | 2500 | 2      | 29 M 771  | U-45  | 250K    | 2      |
| 29 M 797  | U-8    | 3K   | 4      | 29 M 772  | U-46  | 250K    | 4      |
| 29 M 717  | U-9    | 3K   | 2      | 29 M 773  | U-48  | 500K    | 1      |
| 29 M 751  | U-12   | 5K   | 1      | 29 M 774  | U-50  | 500K    | 1      |
| 29 M 797  | U-14   | 5K   | 4      | 29 M 775  | U-52  | 1 Meg   | 1      |
| 29 M 753  | U-18   | 10K  | 1      | 29 M 776  | U-53  | 1 Meg   | 1      |
| 29 M 754  | U-19   | 10K  | 2      | 29 M 777  | U-54  | 1 Meg   | 4      |
| 29 M 755  | U-20   | 10K  | 4      | 29 M 790  | U-155 | 1.5 Meg | 4      |
| 29 M 756  | U-21   | 15K  | 1      | 29 M 778  | U-55  | 2 Meg   | 4      |
| 29 M 757  | U-22   | 15K  | 1      | 29 M 779  | U-56  | 2 Meg   | 4      |
| 29 M 758  | U-24   | 20K  | 4      | 29 M 784  | U-255 | 2.5 Meg | 4      |
| 29 M 783  | U-26   | 20K  | 4      | 29 M 779  | U-57  | 3 Meg   | 1      |
| 29 M 759  | U-28   | 25K  | 2      | 29 M 782  | U-59  | 3 Meg   | 4      |
| 29 M 712  | U-28A  | 25K  | 4      | 29 M 699  | U-63  | 5 Meg   | 2      |
| 29 M 760  | U-29   | 25K  | 4      | 29 M 788  | U-65  | 5 Meg   | 4      |
| 29 M 698  | U-30   | 30K  | 1      | 29 M 789  | U-82  | 10 Meg  | 4      |
| 29 M 761  | U-33   | 50K  | 1      |           |       |         |        |
| 29 M 762  | U-34   | 50K  | 2      |           |       |         |        |
| 29 M 763  | U-35   | 50K  | 4      |           |       |         |        |

NET EACH.....93c

### EXPLANATION OF TAPERS\*

Taper No. 1: For use in audio or antenna shunt circuits.  
Taper No. 2: For series circuit or cathode voltage controls.  
Taper No. 4: Linear. For voltage control.

### TYPE UT SINGLE-TAPPED MIDGETROLS

Same as U-types above, but tapped for tone compensation.

| Stock No. | Type   | Ohms | Tap  | Stock No. | Type   | Ohms  | Tap  |
|-----------|--------|------|------|-----------|--------|-------|------|
| 29 M 718  | UT-153 | 15K  | 10K  | 29 M 861  | UT-440 | 1 Meg | 200K |
| 29 M 585  | UT-415 | 30K  | 25K  | 29 M 862  | UT-438 | 1 Meg | 300K |
| 29 M 802  | UT-420 | 250K | 50K  | 29 M 806  | UT-443 | 1 Meg | 450K |
| 29 M 803  | UT-425 | 350K | 70K  | 29 M 807  | UT-450 | 2 Meg | 125K |
| 29 M 816  | UT-429 | 500K | 50K  | 29 M 808  | UT-448 | 2 Meg | 250K |
| 29 M 804  | UT-427 | 500K | 100K | 29 M 809  | UT-454 | 2 Meg | 400K |
| 29 M 860  | UT-430 | 500K | 150K | 29 M 863  | UT-449 | 2 Meg | 600K |
| 29 M 805  | UT-431 | 500K | 225K | 29 M 810  | UT-451 | 2 Meg | 900K |
|           |        |      |      | 29 M 817  | UT-457 | 3 Meg | 900K |

NET EACH.....1.35

### TYPE UDT DOUBLE-TAPPED MIDGETROLS

| Stock No. | Type    | Ohms     | Taps         | EACH |
|-----------|---------|----------|--------------|------|
| 29 M 988  | UDT-283 | 500K     | 100K/200K    |      |
| 29 M 989  | UDT-289 | 1 Meg    | 250K/500K    |      |
| 29 M 990  | UDT-291 | 1.5 Meg  | 250K/500K    |      |
| 29 M 991  | UDT-295 | 2.25 Meg | 250K/500K    | 1.35 |
| 29 M 992  | UDT-296 | 2.25 Meg | 500K/1 Meg   |      |
| 29 M 719  | UDT-303 | 3.3 Meg  | 300K/1.5 Meg |      |



### INSULATED-SHAFT MIDGETROLS FOR TV

Type SU. Size and construction same as Midgetrols above, but have  $\frac{1}{4}$ " dia. fixed knurled and slotted phenolic shaft protruding  $\frac{1}{4}$ " beyond bushing. Linear taper. With hex nut. Wt., 3 oz.

| Stock No. | Type  | Ohms | Stock No. | Type   | Ohms    |
|-----------|-------|------|-----------|--------|---------|
| 29 M 646  | SU-6  | 1.5K | 29 M 814  | SU-50  | 500K    |
| 29 M 647  | SU-8  | 3K   | 29 M 829  | SU-54  | 1 Meg   |
| 29 M 648  | SU-10 | 5K   | 29 M 830  | SU-56  | 2 Meg   |
| 29 M 826  | SU-20 | 10K  | 29 M 833  | SU-56S | 2.5 Meg |
| 29 M 812  | SU-29 | 25K  | 29 M 815  | SU-59  | 3 Meg   |
| 29 M 827  | SU-35 | 50K  | 29 M 815  | SU-67  | 7.5 Meg |
| 29 M 813  | SU-41 | 100K | 29 M 587  | SU-69  | 7.5 Meg |
| 29 M 828  | SU-46 | 250K |           |        |         |

NET EACH.....93c

### SWITCHES AND ACCESSORIES FOR MIDGETROLS

|                                                                                                                                                               |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| "Push-on, stay-on" switches for Midgetrols. Shpg. wt., 2 oz.                                                                                                  |      |
| 29 M 620. US-26 SPST Switch. NET.....                                                                                                                         | .42c |
| 29 M 621. US-26T SPST Switch. With dummy terminal. NET.....                                                                                                   | .54c |
| 29 M 622. US-27 DPST Switch. NET.....                                                                                                                         | .42c |
| 29 M 623. US-28 SPST Switch. NET.....                                                                                                                         | .54c |
| 29 M 985. DS-36 Special 3' Extension Shaft. For tubular shafts. Also couples front and rear sections together. Shpg. wt., 2 oz. NET.....                      | .33c |
| 29 M 982. DS-37 $\frac{3}{4}$ " Diameter Shaft. For use with round-shaft Midgetrols to accommodate knobs requiring $\frac{3}{4}$ " shaft. Wt., 2 oz. NET..... | .33c |
| 29 M 987. EB-214 Special Bushing. Dimensions: $\frac{1}{2}$ "-28 thread, $2\frac{3}{4}$ " long with .403" milled flat. Shpg. wt., 2 oz. NET.....              | .54c |



## "M" AND "MT" WIRE WOUND CONTROLS

For industrial and laboratory use as bias controls and potentiometer dividers. Also for replacement of positioning hold, focus and other TV-set controls. 4 watts. Air insulated from shaft. 294° rotation. Knurled  $\frac{1}{4}$ " shaft is  $\frac{3}{8}$ " long; has screwdriver slot. "M" shaft is hollow to accept DS-36 and DS-37 shafts (see below, left). "MT" shafts center-tapped TV units.  $1\frac{1}{2}$ " dia. x  $\frac{1}{2}$ " Mount in  $\frac{3}{8}$ " hole. Linear taper. Shpg. wt., 4 oz.

### POTENTIOMETERS

| Stock No. | Type   | Ohms | EA.  | Stock No. | Type    | Ohms   | EA. |
|-----------|--------|------|------|-----------|---------|--------|-----|
| 29 M 424  | M1PK   | 1    |      | 29 M 411  | M500PK  | 500    |     |
| 29 M 425  | M3PK   | 3    |      | 29 M 412  | M600PK  | 600    |     |
| 29 M 426  | M6PK   | 6    | 1.35 | 29 M 413  | M1MPK   | 1000   |     |
| 29 M 427  | M10PK  | 10   |      | 29 M 431  | M1.5MPK | 1500   |     |
| 29 M 430  | MT10PK | 10   | 1.32 | 29 M 414  | M2MPK   | 2000   |     |
| 29 M 431  | M15PK  | 15   |      | 29 M 415  | M2.5MPK | 2500   |     |
| 29 M 401  | M20PK  | 20   | 1.35 | 29 M 416  | M3MPK   | 3000   | 1.3 |
| 29 M 429  | MT20PK | 20   | 1.32 | 29 M 417  | M4MPK   | 4000   |     |
| 29 M 402  | M25PK  | 25   |      | 29 M 418  | M5MPK   | 5000   |     |
| 29 M 403  | M30PK  | 30   |      | 29 M 419  | M10MPK  | 10000  |     |
| 29 M 432  | MT30PK | 30   | 1.35 | 29 M 415  | M15MPK  | 15000  |     |
| 29 M 404  | M40PK  | 40   |      | 29 M 420  | M20MPK  | 20000  | 1.4 |
| 29 M 405  | M50PK  | 50   |      | 29 M 421  | M25MPK  | 25000  |     |
| 29 M 406  | M60PK  | 60   |      | 29 M 422  | M50MPK  | 50000  |     |
| 29 M 407  | M75PK  | 75   | 1.35 | 29 M 423  | M70MPK  | 70000  |     |
| 29 M 408  | M100PK | 100  |      | 29 M 433  | M75MPK  | 75000  | 1.7 |
| 29 M 409  | M200PK | 200  |      | 29 M 434  | M100MPK | 100000 | 2.4 |
| 29 M 410  | M400PK | 400  |      |           |         |        |     |

### RHEOSTATS

Have open or off position counter-clockwise.

| Stock No. | Type  | Ohms          | Amps | Stock No. | Type   | Ohms | Amps |
|-----------|-------|---------------|------|-----------|--------|------|------|
| 29 M 451  | M05RK | $\frac{1}{2}$ | 2.80 | 29 M 459  | M20RK  | 20   | .45  |
| 29 M 452  | M1RK  | 1             | 2.00 | 29 M 460  | M25RK  | 25   | .40  |
| 29 M 453  | M2RK  | 2             | 1.40 | 29 M 461  | M30RK  | 30   | .37  |
| 29 M 454  | M3RK  | 3             | 1.15 | 29 M 462  | M40RK  | 40   | .32  |
| 29 M 455  | M4RK  | 4             | 1.00 | 29 M 463  | M50RK  | 50   | .28  |
| 29 M 456  | M6RK  | 6             | .82  | 29 M 464  | M60RK  | 60   | .26  |
| 29 M 457  | M10RK | 10            | .63  | 29 M 465  | M75RK  | 75   | .23  |
| 29 M 458  | M15RK | 15            | .52  | 29 M 466  | M100RK | 100  | .20  |

NET EACH.....93c

29 M 651. Type 395 Dial Plate. For "M" Controls. 2 oz. NET.....21c



### "C" WIREWOUND CONTROLS

Ideal for limited-space applications. Constructively rated to dissipate 2 watts. Contact are grounded to shaft. 260° effective electrical rotation.  $1\frac{1}{2}$ " dia. x  $\frac{1}{2}$ " deep.  $\frac{1}{4}$ " shaft, slotted  $\frac{3}{4}$ " deep extend  $\frac{1}{2}$ " from bushing. Special nut furnished. Use dial plate 34 B 622, listed below. Linear taper. Av. shpg. wt., 4 oz.

### POTENTIOMETERS

| Stock No. | Type | Ohms | Amps | Stock No. | Type  | Ohms | Amps |
|-----------|------|------|------|-----------|-------|------|------|
| 29 M 720  | C6P  | 6    | .58  | 29 M 725  | C40P  | 40   | .27  |
| 29 M 721  | C10P | 10   | .43  | 29 M 726  | C50P  | 50   | .22  |
| 29 M 722  | C15P | 15   | .37  | 29 M 727  | C100P | 100  | .14  |
| 29 M 723  | C20P | 20   | .32  | 29 M 728  | C200P | 200  | .11  |
| 29 M 724  | C30P | 30   | .26  | 29 M 729  | C400P | 400  | .07  |

NET EACH.....1.0

29 M 7301 C1MP | 1000 | .045 | 29 M 7311 C3MP | 3000 | .025

NET EACH.....1.2

29 M 732 C5MP | 5000 | .02 | 29 M 734 C10MP | 10000 | .01

29 M 733 C6MP | 6000 | .018 | 29 M 735 C15MP | 15000 | .01

NET EACH.....1.4

### RHEOSTATS

| Stock No. | Type | Ohms | Amps | Stock No. | Type  | Ohms | Amps |
|-----------|------|------|------|-----------|-------|------|------|
| 29 M 700  | C6R  | 6    | .58  | 29 M 704  | C30R  | 30   | .26  |
| 29 M 701  | C10R | 10   | .45  | 29 M 705  | C40R  | 40   | .22  |
| 29 M 702  | C15R | 15   | .37  | 29 M 706  | C50R  | 50   | .2   |
| 29 M 703  | C20R | 20   | .32  | 29 M 707  | C100R | 100  | .14  |

NET EACH.....93c

34 B 622. Type 393 Dial Plate. For "C" controls. 2 oz. NET.....21c

### 2-WATT TV AND INDUSTRIAL CONTROLS

Two-watt wirewound potentiometers designed especially for replacement of television controls. Also excellent for use as voltage dividers and bias controls. Insulated contact arm type, linear taper. Special nut and contactor mechanism. 900 volts AC insulation between resistance element and chassis. 297° rotation. Taper 4  $\frac{1}{4}$ " in diameter. Knurled stub shaft has screwdriver slot. Center-tapped.  $\frac{3}{4}$ " bushing. Shpg. wt., 4 oz.

| Stock No. | Type   | Ohms | NET  | Stock No. | Type   | Ohms   | NET  |
|-----------|--------|------|------|-----------|--------|--------|------|
| 29 M 835  | R20L   | 20   | .93  | 29 M 842  | R100L  | 1000   |      |
| 29 M 836  | R20CT* | 20   | 1.32 | 29 M 843  | R1500L | 1500   |      |
| 29 M 837  | R25L   | 25   | .93  | 29 M 844  | R2500L | 2500   | .93  |
| 29 M 838  | R30L   | 30   | .93  | 29 M 845  | R3000L | 3000   |      |
| 29 M 839  | R30CT* | 30   | 1.32 | 29 M 845  | R5000L | 5000   |      |
| 29 M 840  | R50L   | 50   |      | 29 M 892  | R7500L | 7500   |      |
| 29 M 841  | R100L  | 100  |      | 29 M 893  | R15ML  | 10,000 |      |
| 29 M 841  | R250L  | 250  | .93  | 29 M 894  | R15ML  | 15,000 | 1.08 |
| 29 M 834  | R500L  | 500  |      | 29 M 895  | R20ML  | 20,000 |      |





## TVA AND TU ATOMS—MIDGET ELECTROLYTICS

Very compact dry electrolytics. All are metal-cased except, teardrop construction. Engineered especially for replacements in tough TV applications—such as power supplies, decoupling circuits, cathode bypass circuits, etc. Will withstand the high surge voltages and high ripple currents commonly found in television circuits. Very low leakage. Operate efficiently at temperatures as high as 85°C. \*Separate negative lead. Av. shpg. wt., 6 oz.

### A SINGLE SECTION

| Stock No.      | Type | Mfd | DCWV          | Size | NET | Stock No.         | Type | Mfd | WVDC          | Size | NET | Stock No.         | Type | Mfd | DCWV         | Size | NET |
|----------------|------|-----|---------------|------|-----|-------------------|------|-----|---------------|------|-----|-------------------|------|-----|--------------|------|-----|
| L 249 TVA-1962 | 8    | 600 | 1x3 1/16"     | 1.67 |     | L 1518 TVA-1501   | 4    | 250 | 7/16x1 1/8"   | .59  |     | L 151200 TVA-1303 | 5    | 50  | 5/16x1 1/8"  | .59  |     |
| L 256 TVA-1963 | 10   | 600 | 1x3 1/16"     | 1.73 |     | L 15186 TVA-1503  | 8    | 250 | 7/16x1 1/8"   | .68  |     | L 151207 TVA-1304 | 10   | 50  | 5/16x1 1/8"  | .59  |     |
| L 257 TVA-1965 | 16   | 600 | 1x3 1/16"     | 2.03 |     | L 161617 TVA-1505 | 12   | 250 | 7/16x1 1/8"   | .70  |     | L 151202 TVA-1306 | 25   | 50  | 5/16x1 1/8"  | .62  |     |
| L 259 TVA-1966 | 20   | 600 | 1x3 1/16"     | 2.13 |     | L 15187 TVA-1507  | 12   | 250 | 7/16x1 1/8"   | .73  |     | L 151203 TVA-1308 | 50   | 50  | 5/16x1 1/8"  | .71  |     |
| L 73 TVA-1902  | 8    | 500 | 3/4x1 1/16"   | .76  |     | L 15188 TVA-1507  | 16   | 250 | 7/16x1 1/8"   | .76  |     | L 151876 TVA-1310 | 100  | 50  | 5/16x1 1/8"  | .82  |     |
| L 176 TVA-1905 | 16   | 500 | 1x2 3/16"     | .88  |     | L 15189 TVA-1508  | 20   | 250 | 1 1/16x1 1/8" | .79  |     | L 151858 TVA-1311 | 150  | 50  | 5/16x1 1/8"  | .91  |     |
| L 177 TVA-1906 | 20   | 500 | 1 1/2x3/16"   | .94  |     | L 161818 TVA-1510 | 30   | 250 | 1 1/2x2 1/8"  | .85  |     | L 151859 TVA-1312 | 250  | 50  | 5/16x1 1/8"  | .91  |     |
| L 613 TVA-1802 | 10   | 475 | 3/4x1 1/16"   | .79  |     | L 15190 TVA-1511  | 40   | 250 | 3/4x2 3/8"    | .91  |     | L 151869 TVA-1312 | 5    | 25  | 3/4x1 1/8"   | .59  |     |
| L 614 TVA-1804 | 20   | 475 | 3/4x2 7/16"   | .94  |     | L 161246 TVA-1480 | 200  | 200 | 1 3/4x3 3/8"  | 1.70 |     | L 151205 TVA-1204 | 10   | 25  | 3/4x1 1/8"   | .59  |     |
| L 615 TVA-1701 | 2    | 450 | 3/4x1 1/16"   | .65  |     | L 15192 TVA-1402  | 4    | 150 | 3/4x1 1/4"    | .59  |     | L 151206 TVA-1205 | 25   | 25  | 3/4x1 1/8"   | .59  |     |
| L 170 TVA-1702 | 4    | 450 | 3/4x1 1/16"   | .67  |     | L 15193 TVA-1405  | 8    | 150 | 3/4x1 1/4"    | .62  |     | L 151208 TVA-1206 | 50   | 25  | 3/4x1 1/8"   | .65  |     |
| L 171 TVA-1704 | 8    | 450 | 1 1/4x1 1/16" | .73  |     | L 15226 TVA-1406  | 10   | 150 | 1 1/2x2 1/8"  | .62  |     | L 151867 TVA-1207 | 100  | 25  | 3/4x1 1/8"   | .79  |     |
| L 225 TVA-1705 | 10   | 450 | 1 1/4x1 1/16" | .76  |     | L 15194 TVA-1407  | 12   | 150 | 3/4x1 1/8"    | .65  |     | L 151868 TVA-1208 | 25   | 25  | 3/4x2 3/8"   | 1.00 |     |
| L 172 TVA-1706 | 12   | 450 | 3/4x1 1/16"   | .79  |     | L 15195 TVA-1409  | 16   | 150 | 3/4x1 1/8"    | .68  |     | L 151869 TVA-1209 | 500  | 15  | 3/4x2 3/8"   | 1.35 |     |
| L 173 TVA-1708 | 16   | 450 | 3/4x2 3/16"   | .82  |     | L 15241 TVA-1403  | 3    | 150 | 1 1/2x1 1/8"  | .59  |     | L 161236 TVA-1160 | 100  | 15  | 3/4x1 1/8"   | .73  |     |
| L 174 TVA-1709 | 20   | 450 | 3/4x2 3/16"   | .91  |     | L 15196 TVA-1410  | 20   | 150 | 3/4x1 1/8"    | .71  |     | L 161237 TVA-1161 | 250  | 15  | 3/4x1 1/8"   | .91  |     |
| L 175 TVA-1710 | 25   | 450 | 3/4x2 3/16"   | .94  |     | L 16242 TVA-1411  | 25   | 150 | 3/4x1 1/8"    | .73  |     | L 161238 TVA-1162 | 500  | 15  | 1 1/2x2 3/8" | 1.03 |     |
| L 778 TVA-1712 | 40   | 450 | 3/4x2 1/16"   | 1.06 |     | L 15197 TVA-1412  | 30   | 150 | 3/4x1 1/8"    | .76  |     | L 161239 TVA-1163 | 1000 | 12  | 3/4x2 3/8"   | 1.35 |     |
| L 991 TVA-1713 | 50   | 450 | 3/4x3 3/16"   | 1.23 |     | L 15198 TVA-1413  | 40   | 150 | 3/4x1 1/8"    | .82  |     | L 151862 TVA-1131 | 250  | 12  | 3/4x1 1/8"   | .71  |     |
| L 248 TVA-1714 | 60   | 450 | 1x3 1/16"     | 1.38 |     | L 15199 TVA-1414  | 50   | 150 | 1 1/2x1 1/8"  | 1.29 |     | L 151863 TVA-1132 | 500  | 12  | 3/4x1 1/8"   | .85  |     |
| L 985 TVA-1716 | 80   | 450 | 1x3 1/16"     | 1.65 |     | L 16243 TVA-1415  | 60   | 150 | 3/4x1 1/8"    | .98  |     | L 161235 TVA-1133 | 1000 | 12  | 1 1/2x2 3/8" | 1.00 |     |
| L 219 TVA-1718 | 100  | 450 | 1 3/4x1 1/16" | 1.88 |     | L 15278 TVA-1418  | 80   | 150 | 3/4x1 1/8"    | .84  |     | L 161236 TVA-1134 | 1500 | 6   | 3/4x1 1/8"   | 1.32 |     |
| L 181 TVA-1603 | 4    | 350 | 3/4x1 1/8"    | .63  |     | L 161619 TVA-1420 | 100  | 150 | 1x2 3/8"      | 1.03 |     | L 151981 TVA-1100 | 50   | 6   | 3/4x1 1/8"   | .56  |     |
| L 182 TVA-1604 | 8    | 350 | 3/4x1 1/8"    | .70  |     | L 16240 TVA-1422  | 150  | 150 | 1x2 3/8"      | 1.12 |     | L 161237 TVA-1101 | 100  | 6   | 3/4x1 1/8"   | .71  |     |
| L 184 TVA-1608 | 20   | 350 | 1 3/4x1 1/16" | 1.05 |     | L 16244 TVA-1423  | 200  | 150 | 1x3 3/8"      | 1.50 |     | L 161238 TVA-1102 | 250  | 6   | 3/4x1 1/8"   | .79  |     |
| L 983 TVA-1611 | 40   | 350 | 3/4x2 7/16"   | .83  |     | L 16245 TVA-1425  | 300  | 150 | 1 3/4x3 3/8"  | 1.50 |     | L 161232 TVA-1103 | 500  | 6   | 1 3/4x2 3/8" | .92  |     |
| L 984 TVA-1613 | 60   | 350 | 1x2 7/16"     | 1.14 |     | L 151870 TVA-1301 | 50   | 50  | 3/4x1 1/8"    | .53  |     | L 161233 TVA-1104 | 1500 | 6   | 1 3/4x2 3/8" | 1.23 |     |
| L 247 TVA-1957 | 140  | 300 | 1 3/4x3 3/8"  | 1.85 |     | L 151871 TVA-1301 | 2    | 50  | 3/4x1 1/8"    | .53  |     | L 151861 TVA-1106 | 2000 | 6   | 1 3/4x2 3/8" | 1.35 |     |

### B DUAL SECTION

| Stock No.       | Type    | Mfd    | WVDC         | Size | NET |
|-----------------|---------|--------|--------------|------|-----|
| L 220 TVA-2720  | 8-8     | 450    | 3/4x1 1/16"  | 1.00 |     |
| L 221 TU 887    | *8-8    | 450    | 1 1/2x3 3/8" | 1.26 |     |
| L 222 TVA-2721  | 10-10   | 450    | 1 1/2x3 3/8" | 1.18 |     |
| L 984 TVA-2722  | 10-10   | 450    | 1 1/2x3 3/8" | 1.09 |     |
| L 215 TU-16167  | *16-16  | 450    | 1 3/4x3 3/8" | 1.65 |     |
| L 227 TVA-2730  | 20-20   | 450    | 3/4x2 3/16"  | 1.47 |     |
| L 986 TVA-2735  | 30-30   | 450    | 1x3 3/8"     | 1.76 |     |
| L 987 TVA-2740  | 40-40   | 450    | 1x3 3/8"     | 2.00 |     |
| L 220 TVA-2711  | 80-100  | 450-50 | 1 3/4x4 3/8" | 2.17 |     |
| L 222 TVA-26401 | 140-50  | 350    | 1 3/4x4 3/8" | 2.44 |     |
| L 251 TVA-2115  | 8-8     | 150    | 3/4x1 1/8"   | .88  |     |
| L 254 TVA-2320  | 16-16   | 150    | 3/4x1 1/8"   | 1.06 |     |
| L 247 TVA-2428  | 20-20   | 150    | 3/4x1 1/8"   | .97  |     |
| L 252 TVA-2421  | 30-20   | 150    | 3/4x1 1/8"   | 1.00 |     |
| L 253 TVA-2438  | 40-20   | 150    | 3/4x1 1/8"   | .93  |     |
| L 254 TVA-2434  | 50-20   | 150    | 3/4x1 1/8"   | 1.06 |     |
| L 249 TU-4207   | *40-20  | 150    | 1 1/2x2 3/8" | 1.29 |     |
| L 250 TVA-2442  | 40-30   | 150    | 3/4x2 3/16"  | 1.06 |     |
| L 243 TVA-2445  | 40-40   | 150    | 3/4x1 1/8"   | 1.09 |     |
| L 244 TVA-2450  | 50-40   | 150    | 3/4x1 1/8"   | 1.15 |     |
| L 255 TVA-2453  | 60-50   | 150    | 3/4x1 1/8"   | .97  |     |
| L 306 TVA-2460  | 80-30   | 150    | 3/4x2 7/16"  | 1.29 |     |
| L 259 TVA-2462  | 80-50   | 150    | 3/4x2 3/16"  | 1.38 |     |
| L 262 TVA-2464  | 100-100 | 150    | 1 3/4x3 3/8" | 1.88 |     |
| L 263 TVA-2467  | 200-5   | 150    | 1 3/4x3 3/8" | 1.56 |     |
| L 255 TVA-2315  | 10-10   | 50     | 3/4x1 1/8"   | .82  |     |

### C TRIPLE SECTION

| Stock No.        | Mfr's Type | Mfd        | WVDC         | Size | NET EACH |
|------------------|------------|------------|--------------|------|----------|
| L 15307 TVA-3440 | 20-20-20   | 150        | 3/4x1 1/16"  | 1.47 |          |
| L 15308 TVA-3448 | 40-30-20   | 150        | 3/4x2 3/8"   | 1.53 |          |
| L 15309 TVA-3451 | 40-40-40   | 150        | 1x2 1/8"     | 1.64 |          |
| L 15322 TVA-3453 | 40-40-20   | 150        | 1x2 1/8"     | 1.70 |          |
| L 15327 TVA-3453 | 80-40-20   | 150        | 1x2 1/8"     | 1.70 |          |
| L 15388 TVA-3415 | 20-20-20   | 150-150-25 | 3/4x1 7/16"  | 1.44 |          |
| L 15312 TVA-3423 | 40-30-20   | 150-150-25 | 3/4x2 1/8"   | 1.53 |          |
| L 15328 TVA-3427 | 40-40-100  | 150-150-25 | 3/4x2 1/8"   | 1.64 |          |
| L 15313 TVA-3430 | 50-30-20   | 150-150-25 | 3/4x2 1/8"   | 1.66 |          |
| L 15329 TVA-3433 | 50-30-20   | 150-150-25 | 1x2 1/8"     | 1.51 |          |
| L 15314 TVA-3436 | 50-40-20   | 150-150-25 | 1 1/2x2 3/8" | 1.61 |          |
| L 15315 TVA-3437 | 80-40-20   | 150-150-25 | 1x1 1/8"     | 1.64 |          |
| L 15320 TVA-3716 | 12-12-20   | 450-450-25 | 1x1 1/8"     | 1.35 |          |

### QUADRUPEL SECTION

| Stock No.          | Mfr's Type   | Mfd             | WVDC         | Size | NET EACH |
|--------------------|--------------|-----------------|--------------|------|----------|
| L 16284 TVA-4576-1 | 140-5-200-30 | 300-300-200-150 | 1 1/4x4 3/8" | 3.56 |          |
| L 16287 TVA-4618-1 | 80-60-40-20  | 350-350-300-150 | 1 1/4x4 3/8" | 3.47 |          |
| L 16288 TVA-4659-1 | 80-10-40-100 | 400-400-300-50  | 1 1/4x4 3/8" | 3.20 |          |
| L 18224 TVA-4708-1 | 10-80-40-40  | 450-500-250-150 | 1 1/4x4 3/8" | 2.91 |          |
| L 18225 TVA-4747-1 | 40-20-20-10  | 450             | 1 1/4x4 3/8" | 2.76 |          |
| L 18256 TVA-4750-1 | 40-40-20-20  | 450             | 1 1/4x4 3/8" | 3.20 |          |

Not illustrated.

## VL VERTI-LYTIC ELECTROLYTICS

selection of top-quality electrolytic capacitors designed for replacement of units of this type found on printed circuit boards in original equipment. These rugged, extremely small capacitors feature low leakage current and unusually long shelf life. Resin end will not contaminate electrolyte; also protects against aging or degradation for external moisture. All units are housed in sturdy, pre-molded phenolic cases. Contact design makes it virtually impossible to incorrectly install these capacitors—negative lead is easily identified by its larger diameter. Av. shpg. wt., 3 oz.

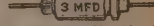


| Stock No.     | Mfr's Type | MFD | WVDC       | Size | NET EACH |
|---------------|------------|-----|------------|------|----------|
| L 676 VL-1302 | 3          | 50  | 3/4x1 1/8" | .91  |          |
| L 678 VL-1304 | 5          | 50  | 3/4x1 1/8" | .97  |          |
| L 679 VL-1307 | 10         | 50  | 3/4x1 1/8" | .97  |          |
| L 681 VL-1309 | 20         | 50  | 3/4x1 1/8" | .97  |          |
| L 681 VL-1310 | 25         | 50  | 3/4x1 1/8" | .97  |          |
| L 682 VL-1210 | 25         | 25  | 3/4x1 1/8" | .97  |          |
| L 684 VL-1215 | 50         | 25  | 3/4x1 1/8" | 1.03 |          |
| L 685 VL-1167 | 10         | 15  | 3/4x1 1/8" | .88  |          |
| L 686 VL-1170 | 15         | 15  | 3/4x1 1/8" | .91  |          |
| L 688 VL-1174 | 50         | 15  | 3/4x1 1/8" | .97  |          |
| L 688 VL-1180 | 100        | 15  | 3/4x1 1/8" | 1.15 |          |
| L 689 VL-1084 | 5          | 6   | 3/4x1 1/8" | .85  |          |
| L 690 VL-1087 | 10         | 6   | 3/4x1 1/8" | .85  |          |
| L 691 VL-1092 | 35         | 6   | 3/4x1 1/8" | .90  |          |
| L 693 VL-1038 | 10         | 3   | 3/4x1 1/8" | .85  |          |
| L 694 VL-1045 | 50         | 3   | 3/4x1 1/8" | .91  |          |
| L 696 VL-1067 | 290        | 3   | 3/4x1 1/8" | 1.18 |          |

## TE "LITTL-LYTIC" SUBMINIATURE CAPACITORS

An extensive selection of ultra-small 30D series electrolytics. Excellent for use in transistorized radios, transistor circuits in hearing aids, pocket tape recorders, wireless microphones, and other miniature electronic equipment. Hermetically

sealed, aluminum end-caps. Withstand temperatures to 85°C. Low leakage current; long shelf life. Size is diameter x length. Av. shpg. wt., 1 oz.



| No.     | Type   | Mfd | WVDC | Size       | E.A. |
|---------|--------|-----|------|------------|------|
| L 61028 | 1055   | 25  | 3    | 3/4x1 1/8" | .73  |
| L 61029 | 1060   | 110 | 3    | 3/4x1 1/8" | .82  |
| L 61054 | 1064   | 200 | 3    | 3/4x1 1/8" | .88  |
| L 61056 | 1065   | 300 | 3    | 3/4x1 1/8" | .97  |
| L 61055 | 1065   | 500 | 3    | 3/4x1 1/8" | 1.03 |
| L 61030 | 1080   | 1   | 6    | 3/4x1 1/8" | .73  |
| L 61031 | 1081   | 2   | 6    | 3/4x1 1/8" | .73  |
| L 61032 | 1082   | 3   | 6    | 3/4x1 1/8" | .73  |
| L 61033 | 1083   | 4   | 6    | 3/4x1 1/8" | .73  |
| L 61034 | 1084   | 5   | 6    | 3/4x1 1/8" | .73  |
| L 61035 | 1085   | 6   | 6    | 3/4x1 1/8" | .79  |
| L 61036 | 1086   | 8   | 6    | 3/4x1 1/8" | .79  |
| L 61037 | 1089   | 15  | 6    | 3/4x1 1/8" | .79  |
| L 61038 | 1091   | 25  | 6    | 3/4x1 1/8" | .79  |
| L 61039 | 1092   | 30  | 6    | 3/4x1 1/8" | .82  |
| L 61041 | 1100   | 50  | 6    | 3/4x1 1/8" | .82  |
| L 61042 | 1101   | 60  | 6    | 3/4x1 1/8" | .82  |
| L 61059 | 1101.5 | 75  | 6    | 3/4x1 1/8" | .85  |
| L 61043 | 1106   | 300 | 6    | 3/4x1 1/8" | 1.06 |
| L 61043 | 1118   | 25  | 10   | 3/4x1 1/8" | .79  |
| L 61042 | 1119   | 50  | 10   | 3/4x1 1/8" | .88  |
| L 61043 | 1119.3 | 100 | 10   | 3/4x1 1/8" | 1.00 |
| L 61044 | 1119.6 | 200 | 10   | 3/4x1 1/8" | .88  |
| L 61045 | 1127   | 5   | 12   | 3/4x1 1/8" | .79  |
| L 61045 | 1128   | 10  | 12   | 3/4x1 1/8" | .79  |
| L 61044 | 1132   | 5   | 15   | 3/4x1 1/8" | .82  |
| L 61045 | 1135   | 10  | 15   | 3/4x1 1/8" | .82  |

# Sprague Capacitors



## "BLACK BEAUTY"—"MYLAR" PAPER TELECAPS

Hi-temp molded plastic case tubulars. Highly resistant to heat and moisture; ruggedly built; completely insulated. Features special "DIFILM" ("Mylar" paper) type dielectric. 200 to 1000 v. types operate to 105° C; 1600 v. and up types, operate to 85° C. 1600-6000 v. types are oil impregnated. All are ±10% tolerance. Av. shpg. wt., 3 oz.

## "ORANGE DROP" CAPACITORS

### "MYLAR"-PAPER



Extremely small tubular capacitors. Dual electric, ultra-reliable windings, rock-hard case, radial leads. Leak proof. Exact replacements for printed circuit boards of RCA, Philco and G.E. Durable epoxy potting for guaranteed against heat and moisture. ±10% 2 oz.

### 200 VOLTS DC WORKING

| Stock No. | Type    | Mfd  | Size        | EACH |
|-----------|---------|------|-------------|------|
| 15 L 120  | 2TM-S20 | .02  | 3/8x1 1/4"  | .15  |
| 15 L 149  | 2TM-S47 | .047 | 7/16x1 1/4" | .15  |
| 15 L 121  | 2TM-S80 | .05  | 7/16x1 1/4" | .15  |
| 15 L 122  | 2TM-P10 | .1   | 7/16x1 1/4" | .21  |
| 15 L 145  | 2TM-P15 | .15  | 7/16x1 1/4" | .21  |
| 15 L 146  | 2TM-P22 | .22  | 7/16x1 1/4" | .24  |
| 15 L 147  | 2TM-P47 | .47  | 7/16x1 1/4" | .24  |
| 15 L 148  | 2TM-P75 | .75  | 7/16x1 1/4" | .35  |
| 15 L 123  | 2TM-P50 | .5   | 7/16x1 1/4" | .35  |
| 15 L 24   | 2TM-M1  | 1.0  | 7/16x1 1/4" | .62  |

### 600 VOLTS DC WORKING (Cont'd)

| Stock No. | Type    | Mfd | Size       | EACH |
|-----------|---------|-----|------------|------|
| 15 L 083  | 6TM-P25 | .25 | 3/4x2 1/4" | .44  |
| 15 L 260  | 6TM-P50 | .5  | 1x2 1/2"   | .73  |
| 15 L 261  | 6TM-M1  | 1.0 | 1x2 1/2"   | 1.03 |

### 1000 VOLTS DC WORKING

| Stock No. | Type      | Mfd   | Size        | EACH |
|-----------|-----------|-------|-------------|------|
| 15 L 928  | 10TM-TD10 | .0005 | 5/16x1"     |      |
| 15 L 929  | 10TM-T50  | .001  | 5/16x1"     |      |
| 15 L 930  | 10TM-D15  | .0015 | 5/16x1"     | 29¢  |
| 15 L 931  | 10TM-D20  | .002  | 5/16x1 1/4" |      |
| 15 L 932  | 10TM-D22  | .0022 | 5/16x1 1/4" |      |

### 400 VOLTS DC WORKING

| Stock No. | Type    | Mfd  | Size        | EACH |
|-----------|---------|------|-------------|------|
| 15 L 125  | 4TM-S10 | .01  | 3/8x1 1/4"  | .15  |
| 15 L 126  | 4TM-S20 | .02  | 3/8x1 1/4"  | .15  |
| 15 L 127  | 4TM-S47 | .047 | 7/16x1 1/4" | .18  |
| 15 L 128  | 4TM-S80 | .05  | 7/16x1 1/4" | .18  |
| 15 L 129  | 4TM-S10 | .1   | 7/16x1 1/4" | .21  |
| 15 L 130  | 4TM-P15 | .15  | 7/16x1 1/4" | .24  |
| 15 L 521  | 4TM-P20 | .2   | 7/16x1 1/4" | .26  |
| 15 L 512  | 4TM-P22 | .22  | 7/16x1 1/4" | .26  |
| 15 L 129  | 4TM-P25 | .25  | 7/16x1 1/4" | .29  |
| 15 L 010  | 4TM-P50 | .5   | 7/16x1 1/4" | .44  |

### 600 VOLTS DC WORKING

| Stock No. | Type    | Mfd    | Size   | EACH |
|-----------|---------|--------|--------|------|
| 15 L 250  | 6TM-T10 | .0001  | 3/8x1" | 15¢  |
| 15 L 251  | 6TM-T25 | .00025 | 3/8x1" |      |
| 15 L 252  | 6TM-T40 | .0004  | 3/8x1" |      |
| 15 L 253  | 6TM-T50 | .0005  | 3/8x1" |      |
| 15 L 070  | 6TM-D10 | .001   | 3/8x1" |      |

| Stock No. | Type    | Mfd   | Size   | EACH |
|-----------|---------|-------|--------|------|
| 15 L 084  | 6TM-D15 | .0015 | 3/8x1" |      |
| 15 L 071  | 6TM-D20 | .002  | 3/8x1" |      |
| 15 L 092  | 6TM-D22 | .0022 | 3/8x1" | 15¢  |
| 15 L 072  | 6TM-D30 | .003  | 3/8x1" |      |
| 15 L 522  | 6TM-D33 | .0033 | 3/8x1" |      |

| Stock No. | Type    | Mfd   | Size       | EACH |
|-----------|---------|-------|------------|------|
| 15 L 073  | 6TM-D40 | .004  | 3/8x1 1/4" |      |
| 15 L 093  | 6TM-D47 | .0047 | 3/8x1 1/4" |      |
| 15 L 074  | 6TM-D50 | .005  | 3/8x1 1/4" | 15¢  |
| 15 L 075  | 6TM-D60 | .006  | 3/8x1 1/4" |      |

| Stock No. | Type    | Mfd   | Size       | EACH |
|-----------|---------|-------|------------|------|
| 15 L 254  | 6TM-D68 | .0068 | 3/8x1 1/4" |      |
| 15 L 076  | 6TM-D80 | .008  | 3/8x1 1/4" |      |
| 15 L 077  | 6TM-S10 | .01   | 3/8x1 1/4" | 18¢  |
| 15 L 094  | 6TM-S15 | .015  | 3/8x1 1/4" |      |
| 15 L 078  | 6TM-S20 | .02   | 3/8x1 1/4" |      |
| 15 L 079  | 6TM-S22 | .022  | 3/8x1 1/4" |      |

| Stock No. | Type    | Mfd  | Size        | EACH |
|-----------|---------|------|-------------|------|
| 15 L 078  | 6TM-S30 | .03  | 7/16x1 1/4" | .21  |
| 15 L 526  | 6TM-S33 | .033 | 7/16x1 1/4" | .21  |
| 15 L 079  | 6TM-S40 | .04  | 7/16x1 1/4" | .21  |
| 15 L 098  | 6TM-S47 | .047 | 7/16x1 1/4" | .24  |
| 15 L 080  | 6TM-S50 | .05  | 7/16x1 1/4" | .24  |
| 15 L 081  | 6TM-S60 | .06  | 7/16x1 1/4" | .24  |

| Stock No. | Type    | Mfd | Size        | EACH |
|-----------|---------|-----|-------------|------|
| 15 L 082  | 6TM-P10 | .1  | 7/16x1 1/4" | .26  |
| 15 L 524  | 6TM-P15 | .15 | 7/16x1 1/4" | .26  |
| 15 L 525  | 6TM-P20 | .2  | 7/16x1 1/4" | .38  |

### 1600 VOLTS DC WORKING

| Stock No. | Type   | Mfd   | Size       | EACH |
|-----------|--------|-------|------------|------|
| 15 L 270  | MB-T5  | .0005 | 3/8x1 1/4" |      |
| 15 L 271  | MB-D15 | .0015 | 3/8x1 1/4" |      |
| 15 L 158  | MB-D2  | .002  | 3/8x1 1/4" | 38¢  |
| 15 L 272  | MB-D22 | .0022 | 3/8x1 1/4" |      |
| 15 L 159  | MB-D4  | .004  | 3/8x1 1/4" |      |

| Stock No. | Type   | Mfd   | Size       | EACH |
|-----------|--------|-------|------------|------|
| 15 L 273  | MB-D33 | .0033 | 3/8x1 1/4" |      |
| 15 L 274  | MB-D47 | .0047 | 3/8x1 1/4" | 38¢  |
| 15 L 161  | MB-D5  | .005  | 3/8x1 1/4" |      |
| 15 L 162  | MB-D6  | .006  | 3/8x1 1/4" |      |

| Stock No. | Type   | Mfd   | Size       | EACH |
|-----------|--------|-------|------------|------|
| 15 L 275  | MB-D68 | .0068 | 3/8x1 1/4" |      |
| 15 L 163  | MB-D7  | .007  | 3/8x1 1/4" |      |
| 15 L 164  | MB-D75 | .0075 | 3/8x1 1/4" | 38¢  |
| 15 L 165  | MB-D8  | .008  | 3/8x1 1/4" |      |

| Stock No. | Type   | Mfd  | Size       | EACH |
|-----------|--------|------|------------|------|
| 15 L 166  | MB-S1  | .01  | 3/8x1 1/4" |      |
| 15 L 167  | MB-S15 | .015 | 3/8x1 1/4" | 41¢  |
| 15 L 168  | MB-S2  | .02  | 3/8x1 1/4" |      |

| Stock No. | Type  | Mfd | Size       | EACH |
|-----------|-------|-----|------------|------|
| 15 L 277  | MB-S3 | .03 | 3/8x1 1/4" | 41¢  |
| 15 L 278  | MB-S4 | .04 | 3/8x1 1/4" |      |
| 15 L 280  | TR-15 | .05 | 3/8x1 1/4" |      |

### 6000 VOLTS DC WORKING

15 L 853 is rated at 10,000 DC wkg. volts.

| Stock No. | Type    | Mfd   | Size       | EACH |
|-----------|---------|-------|------------|------|
| 15 L 850  | TVM-356 | .0005 | 3/8x1 1/4" | .79  |
| 15 L 851  | TVM-216 | .001  | 3/8x1 1/4" | .79  |
| 15 L 852  | TVM-354 | .005  | 3/8x1 1/4" | .75  |
| 15 L 853  | TVM-351 | .0005 | 3/8x1 1/4" | .88  |

## POPULAR CAPACITOR KITS

### ELECTROLYTIC CAPACITOR KITS



**SK-106 Atom Electrolytic Capacitor Kit.** An excellent investment for the hobbyist, experimenter, Ham, etc. Contains one each of the following: 1205, 1303, 1304, 1410, 1422, 1704, 1705, 1708, 1709, 2444, 2750, 2755, 2764, 3739, 3787, 4561. Sturdy metal cabinet, supplied as free bonus, keeps stock neat—tells at glance which types to reorder. 109¢x9x5 1/4". 10 lbs. **34.63**

**58 L 514. NET.** **18.05**

**EK-1 Atom Electrolytic Capacitor Kit.** Consists of the following types of TVA capacitors: 1205, 1303, 1304, 1410, 1422, 1704, 1705, 1708, 1709, 2444, 2750, 2755, 2764, 3739, 3787, 4561. Sturdy metal cabinet, supplied as free bonus, keeps stock neat—tells at glance which types to reorder. 109¢x9x5 1/4". 10 lbs. **34.63**

**58 L 516. NET.** **13.70**

**SK-105 Twist-Lok Electrolytic Capacitor Kit.** Contains one each of the 20 most popular TVL types: #1423, 1425, 1426, 1428, 1429, 1430, 1431, 1434, 1540, 1584, 1638, 1725, 1760, 2444, 2750, 2755, 2764, 3739, 3787, 4561. Sturdy metal cabinet, supplied as free bonus, keeps stock neat—tells at glance which types to reorder. 109¢x9x5 1/4". 10 lbs. **34.63**

**28 L 317. NET.** **34.63**

### "BLACK BEAUTY" CAPACITOR KITS



**TK-K1.72 "Black Beauty" capacitor kit.** capacitors in plastic case. All are 600 volt. Compartmentalized case contains: 1—002, 2—0047, 8—005, 15—01, 8—02, 2—03, 8—047, 12—05, 8—1, and 2—25. Shpg. wt., 2 1/2 lbs.

**58 L 515. NET.** **14.41**

**TK-K3.36 "Black Beauty" buffer capacitors of the most used ratings. From .001 to .03 mfd. 1600 WVDC. In clear, plastic case. Size, 19x1x1 1/2". Shpg. wt., 2 1/2 lbs.**

**58 L 517. NET.** **13.96**

**TK-K5. Steel cabinet with 59 molded tubulars in 9 popular ratings. From .001 to .25 mfd at 600 WVDC. 4 1/2x3 1/2x1 1/4". 5 lbs.**

**19 L 645. NET.** **12.49**

**TK-K6. 2-drawer steel cabinet with 119 tubulars in 10 popular ratings. From .001 to .25 mfd at 600 WVDC. 4 1/2x7x3 1/4". 8 lbs.**

**19 L 646. NET.** **23.52**

### CERAMIC CAPACITOR KIT

**CK-K4. Handles 90% of all ceramic, molded tubular, and mica replacements. 3 each: UHK-1, UHK-2, UGA-1 and UGA-2. With instructions. 3 1/2x8 1/2". Wt., 3 oz.**

**18 L 712. NET EACH.** **3.88**

## AM MOTOR-STARTING CAPACITORS



An electrolytic capacitor designed especially for 110 volt capacitor start AC motors. Carefully engineered to pass the correct amount of current for the maximum possible starting torque. In tightly sealed aluminum cans with insulating outer cardboard tubes for high efficiency and dependability. Provided with lug terminals for quick, easy installation. Screws are removable for solder connections if desired. When in question as to proper size, choose the next larger value of capacitance. \*Minimum maximum capacitance values replaceable with these units. Av. shpg. wt., 1 oz.

| Stock No. | Mfr's Type | *Mfd    | Size         | NET EACH |
|-----------|------------|---------|--------------|----------|
| 15 L 948  | 1113       | 43-53   | 1x2 1/4"     | .74      |
| 15 L 949  | 1106       | 47-56   | 1x2 1/4"     | .74      |
| 15 L 980  | 1107       | 53-64   | 1x2 1/4"     | .75      |
| 15 L 981  | 1108       | 64-77   | 1x2 1/4"     | .79      |
| 15 L 982  | 1109       | 72-88   | 1x2 1/4"     | .81      |
| 15 L 983  | 1110       | 88-108  | 1x2 1/4"     | .86      |
| 15 L 984  | 1111       | 108-120 | 1x2 1/4"     | .87      |
| 15 L 985  | 1116       | 124-149 | 1 1/2x2 1/4" | .87      |
| 15 L 986  | 1119       | 130-156 | 1 1/2x2 1/4" | .87      |
| 15 L 987  | 1122       | 145-175 | 1 1/2x2 1/4" | .94      |
| 15 L 988  | 1125       | 161-193 | 1 1/2x2 1/4" | .96      |
| 15 L 989  | 1128       | 189-227 | 1 1/2x2 1/4" | 1.11     |
| 15 L 990  | 1130       | 227-254 | 1 1/2x2 1/4" | 1.15     |
| 15 L 991  | 1131       | 200-240 | 1 1/2x3 1/4" | 1.20     |
| 15 L 992  | 1132       | 216-259 | 1 1/2x3 1/4" | 1.20     |
| 15 L 993  | 1133       | 233-280 | 1 1/2x3 1/4" | 1.32     |
| 15 L 994  | 1134       | 243-292 | 1 1/2x4 1/4" | 1.38     |
| 15 L 995  | 1135       | 270-324 | 1 1/2x4 1/4" | 1.40     |
| 15 L 996  | 1136       | 324-388 | 1 1/2x4 1/4" | 1.59     |
| 15 L 997  | 1137       | 340-408 | 1 1/2x4 1/4" | 1.64     |
| 15 L 998  | 1138       | 378-440 | 1 1/2x4 1/4" | 1.76     |
| 15 L 999  | 1139       | 400-480 | 1 1/2x4 1/4" | 1.78     |
| 15 L 949  | 1152       | 430-516 | 1 1/2x4 1/4" | 2.01     |



# Sprague Ceramic Capacitors



## TEMPERATURE-STABLE CERAMICS

dependable ceramics are excellent for use wherever minimum capacitance change, with variation in temperature, is an important consideration. Compact size permits easy installation, even in tight spaces. Standard capacitance range, 10 pF to 1000 microfarads. D.C. Diameter ranges in size 1/4" to 7/8". Largest thickness, 3/32". Maximum continuous operating temperature, +100°C. \*Rated in mfd. Av. shpg. wt., 2 oz.



| Stock No. | Type | Mmfd | Stock No. | Type | Mmfd   |
|-----------|------|------|-----------|------|--------|
| 19 L 900  | V33  | 3.3  | 28 L 920  | T24  | 240    |
| 19 L 901  | V50  | 5    | 28 L 921  | T24  | 240    |
| 19 L 902  | V68  | 6.8  | 28 L 922  | T27  | 270    |
| 19 L 903  | V68  | 6.8  | 28 L 923  | T30  | 300    |
| 19 L 904  | V75  | 7.5  | 28 L 924  | T33  | 330    |
| 19 L 905  | V80  | 8    | 28 L 925  | T35  | 350    |
| 19 L 906  | V10  | 10   | 28 L 926  | T36  | 360    |
| 19 L 907  | V12  | 12   | 28 L 927  | T39  | 390    |
| 19 L 908  | V15  | 15   | 28 L 928  | T40  | 400    |
| 19 L 909  | V18  | 18   | 28 L 929  | T47  | 470    |
| 19 L 910  | V20  | 20   | 28 L 930  | T50  | 500    |
| 19 L 911  | V22  | 22   | 28 L 931  | T56  | 560    |
| 19 L 912  | V25  | 25   | 28 L 932  | T60  | 600    |
| 19 L 913  | V27  | 27   | 28 L 933  | T68  | 680    |
| 19 L 914  | V30  | 30   | 28 L 934  | T75  | 750    |
| 19 L 915  | V33  | 33   | 28 L 935  | T80  | 800    |
| 19 L 916  | V36  | 36   | 28 L 936  | T82  | 820    |
| 19 L 917  | V47  | 47   | 28 L 937  | T100 | 1000   |
| 19 L 918  | V50  | 50   | 28 L 938  | T102 | 1020   |
| 19 L 919  | V56  | 56   | 28 L 939  | T113 | 1130   |
| 19 L 940  | V68  | 68   | 28 L 951  | D15  | .0015* |
| 19 L 941  | V75  | 75   | 28 L 952  | D16  | .0016* |
| 19 L 942  | V82  | 82   | 28 L 953  | D18  | .0018* |
| 19 L 943  | V90  | 90   | 28 L 954  | D20  | .0020* |
| 19 L 944  | V100 | 100  | 28 L 955  | D22  | .0022* |
| 19 L 945  | T12  | 120  | 28 L 956  | D25  | .0025* |
| 19 L 946  | T13  | 130  | 28 L 957  | D27  | .0027* |
| 19 L 947  | T15  | 150  | 28 L 958  | D30  | .0030* |
| 19 L 948  | T18  | 180  | 28 L 959  | D33  | .0033* |
| 19 L 949  | T20  | 200  | 28 L 960  | D39  | .0039* |
| 19 L 950  | T22  | 220  | 28 L 961  | D40  | .0040* |

T EAKH... 15c

|          |     |        |          |     |        |
|----------|-----|--------|----------|-----|--------|
| 19 L 962 | D43 | .0043  | 28 L 967 | D70 | .0075* |
| 19 L 963 | D47 | .0047  | 28 L 968 | S10 | .01*   |
| 19 L 964 | D50 | .005*  | 28 L 969 | S15 | .015*  |
| 19 L 965 | D56 | .0056* | 28 L 970 | S20 | .02*   |
| 19 L 966 | D68 | .0068* |          |     |        |

EACH... 18c

## CERAMIC CAPACITORS FOR TRANSISTORIZED CIRCUITS

pecially designed ceramics requiring extremely small components. Ideal for transistorized circuits, transistor radio sets, etc. Wide variety depends on service in bypass or coupling applications. Have excellent humidity resistance.



Type TG. Have heavy, protective coating. All are rated at 50 working volts, D.C. voltage tolerance of +50% to -20% except 1/4", which is +80% to -30%.

| Stock No. | Type | Mmfd | Dia.  | Wt.  | NET |
|-----------|------|------|-------|------|-----|
| 19 L 995  | D50  | .005 | 1/4"  | 2oz. | 26c |
| 19 L 996  | S10  | .01  | 3/32" | 3oz. | 38c |
| 19 L 997  | S25  | .025 | 1/2"  | 3oz. | 38c |
| 19 L 998  | S30  | .03  | 1/2"  | 3oz. | 41c |
| 19 L 999  | P10  | .1   | 1/2"  | 4oz. | 53c |

Monolithic Type. Solid homogeneous block construction assures excellent humidity resistance. Rated 25 working volts, D.C. temperature rating, -55°C to +85°C. Tolerance, ±20%. Size, 1/2x1/4x1/4". Shpg. wt., 2 oz.

| Stock No. | Type | Mmfd | NET  |
|-----------|------|------|------|
| 19 L 698  | SC9  | .22  | .61  |
| 19 L 699  | SC10 | .33  | .64  |
| 19 L 725  | SC11 | .47  | .73  |
| 19 L 726  | SC12 | .68  | .82  |
| 19 L 724  | SC13 | 1.0  | 1.00 |

HyperCon Type. Highly dependable, ultra-minor ceramic discs. Superior to electrolytic capacitors of similar capacitance values, due to very low power factor. Tolerance, guaranteed minimum value. All are rated 3 working volts, D.C. Shpg. wt., 2 oz.

| Stock No. | Type   | Mmfd | Dia.  | NET |
|-----------|--------|------|-------|-----|
| 19 L 671  | HY-120 | .1   | .225" | 53c |
| 19 L 672  | HY-125 | .22  | .275" | 53c |
| 19 L 673  | HY-130 | .47  | .400" | 53c |
| 19 L 675  | HY-135 | 1.0  | .595" | 44c |
| 19 L 676  | HY-150 | 2.2  | .840" | 53c |

## "CERA-MITE" DISC CERAMIC CAPACITORS

Ultra-compact ceramic disc capacitors. In EIA (RETMA) and other popular values. High by-pass efficiency in critical circuits. Moisture-proof coating. Tolerances: 1000 WVDC types = ±20%. 3000 WVDC types 1.5 mm, ±15 mm; 4.7 mm, ±5 mm; 5 mm, ±10 mm; 10 mm, ±10%. 1000 WVDC types 1.5 mm, ±15 mm; 4.7 mm, ±5 mm; 5 mm, ±10 mm; 10 mm, ±10%. Sizes range from 1/4" to 7/8". Average shpg. wt., 2 oz.

### SERIES 5GA—1000 WVDC

\*Designates Mfd.

| Stock No. | Type | Mmfd | Stock No. | Type | Mmfd   |
|-----------|------|------|-----------|------|--------|
| 16 L 300  | V50  | 5    | 16 L 330  | T25  | 250    |
| 16 L 301  | V75  | 7.5  | 16 L 331  | T27  | 270    |
| 16 L 302  | V80  | 8    | 16 L 332  | T30  | 300    |
| 16 L 303  | V10  | 10   | 16 L 333  | T33  | 330    |
| 16 L 304  | V18  | 18   | 16 L 334  | T35  | 350    |
| 16 L 305  | Q12  | 12   | 16 L 335  | T36  | 360    |
| 16 L 306  | Q15  | 15   | 16 L 336  | T39  | 390    |
| 16 L 307  | Q18  | 18   | 16 L 337  | T40  | 400    |
| 16 L 308  | Q20  | 20   | 16 L 338  | T47  | 470    |
| 16 L 309  | Q22  | 22   | 16 L 339  | T50  | 500    |
| 16 L 310  | Q25  | 25   | 16 L 340  | T56  | 560    |
| 16 L 311  | Q27  | 27   | 16 L 341  | T60  | 600    |
| 16 L 312  | Q30  | 30   | 16 L 342  | T68  | 680    |
| 16 L 313  | Q32  | 32   | 16 L 343  | T75  | 750    |
| 16 L 314  | Q39  | 39   | 16 L 344  | T80  | 800    |
| 16 L 315  | Q47  | 47   | 16 L 345  | T82  | 820    |
| 16 L 316  | Q50  | 50   | 16 L 346  | D10  | .0010* |
| 16 L 317  | Q56  | 56   | 16 L 347  | D12  | .0012* |
| 16 L 318  | Q68  | 68   | 16 L 348  | D13  | .0013* |
| 16 L 319  | Q75  | 75   | 16 L 349  | D15  | .0015* |
| 16 L 320  | 82   | 82   | 16 L 350  | D16  | .0016* |
| 16 L 321  | Q91  | 91   | 16 L 351  | D18  | .0018* |
| 16 L 322  | T10  | 100  | 16 L 352  | D20  | .0020* |
| 16 L 323  | T12  | 120  | 16 L 353  | D22  | .0022* |
| 16 L 324  | T13  | 130  | 16 L 354  | D25  | .0025* |
| 16 L 325  | T15  | 150  | 16 L 355  | D27  | .0027* |
| 16 L 326  | T18  | 180  | 16 L 356  | D30  | .0030* |
| 16 L 327  | T20  | 200  | 16 L 357  | D33  | .0033* |
| 16 L 328  | T22  | 220  | 16 L 358  | D39  | .0039* |
| 16 L 329  | T24  | 240  | 16 L 359  | D40  | .0040* |

NET EACH... 15c

| Stock No. | Type | Mmfd  | EACH |
|-----------|------|-------|------|
| 16 L 360  | D43  | .0043 |      |
| 16 L 361  | D47  | .0047 |      |
| 16 L 362  | D50  | .005  | 18c  |
| 16 L 363  | S10  | .01   |      |
| 16 L 364  | S20  | .02   |      |

### SERIES 30GA—3000 WVDC

| Stock No. | Type | Mmfd | Stock No. | Type | Mmfd |
|-----------|------|------|-----------|------|------|
| 16 L 387  | V15  | 1.5  | 16 L 377  | T10  | 100  |
| 16 L 370  | V47  | 4.7  | 16 L 378  | T12  | 120  |
| 16 L 371  | Q10  | 10   | 16 L 379  | T15  | 150  |
| 16 L 372  | Q15  | 15   | 16 L 380  | T18  | 180  |
| 16 L 373  | Q25  | 25   | 16 L 381  | T20  | 200  |
| 16 L 374  | Q30  | 30   | 16 L 382  | T22  | 220  |
| 16 L 375  | Q39  | 39   | 16 L 383  | T25  | 250  |
| 16 L 390  | Q50  | 50   | 16 L 384  | T27  | 270  |
| 16 L 390  | Q60  | 60   | 16 L 385  | T30  | 300  |
| 16 L 376  | Q68  | 68   | 16 L 386  | T50  | 500  |

NET EACH... 24c

## SINGLE AND DUAL HIGH-K TYPES

### SERIES 5HK—500 & 1000 WVDC

| Stock No. | Type | Mmfd    | WVDC | NET |
|-----------|------|---------|------|-----|
| 19 L 672  | D20  | .002    | 1000 | 15c |
| 19 L 673  | D50  | .005    | 1000 | 15c |
| 19 L 674  | S10  | .010    | 500  | 14c |
| 19 L 950  | D20  | .02     | 500  | 35c |
| 19 L 951  | S30  | .03     | 500  | 38c |
| 19 L 952  | S40  | .04     | 500  | 41c |
| 19 L 953  | S50  | .05     | 500  | 41c |
| 19 L 954  | P10  | .1      | 500  | 94c |
| 19 L 675  | D210 | 2x.001  | 1000 | 24c |
| 19 L 676  | D215 | 2x.0015 | 1000 | 24c |
| 19 L 677  | D230 | 2x.002  | 1000 | 24c |
| 19 L 678  | D240 | 2x.004  | 1000 | 26c |

Compact, self-contained assemblies with all capacitors used in one or more stages of a radio circuit. Rated at 500 WVDC, 1000 VDC test. Av. Shpg. wt., 2 oz.



## BULPLATE MULTIPLE CERAMICS

| Stock No. | Mfr's Type | Mfd.                           | Size           | NET EACH |
|-----------|------------|--------------------------------|----------------|----------|
| 15 L 626  | 34C3       | .002, .0022, .0022, .005       | 1 1/2x3/8x3/8" | 44c      |
| 15 L 627  | 34C4       | .002, .0015, .005, .0001, .005 | 1 1/2x3/8x3/8" | 53c      |
| 15 L 628  | 34C5       | .002, .005, .0001, .005        | 1 1/2x3/8x3/8" | 44c      |
| 15 L 629  | 34C6       | 3x.004                         | 1 1/2x3/8x3/8" | 38c      |

## "TC" CALCULATOR

Handy slide-rule. Determines values of NPO and N750 ceramics to be connected in parallel to equal desired intermediate temperature coefficient and capacity. Shpg. wt., 4 oz. 15c

### SERIES 10TCC NPO CERAMICS

Zero temperature-coefficient capacitors. 1000 WVDC. All capacitors listed below are of the disc type. Av. shpg. wt., 2 oz.

| Stock No. | Type | Mmfd | Stock No. | Type | Mmfd |
|-----------|------|------|-----------|------|------|
| 19 L 955  | V10  | 1.0  | 19 L 961  | Q10  | 10.0 |
| 19 L 956  | V15  | 1.5  | 19 L 962  | Q15  | 15.0 |
| 19 L 957  | V22  | 2.2  | 19 L 963  | Q20  | 20.0 |
| 19 L 958  | V33  | 3.3  | 19 L 964  | Q22  | 22.0 |
| 19 L 959  | V47  | 4.7  | 19 L 965  | Q25  | 25.0 |
| 19 L 960  | V68  | 6.8  | 19 L 966  | Q33  | 33.0 |

NET EACH... 29c

| Stock No. | Type      | Mmfd  | EACH |
|-----------|-----------|-------|------|
| 19 L 967  | 10TCC-Q30 | 39.0  | 32c  |
| 19 L 968  | 10TCC-Q39 | 40.0  | 32c  |
| 19 L 969  | 10TCC-Q50 | 40.0  | 32c  |
| 19 L 970  | 10TCC-Q68 | 68.0  | 32c  |
| 19 L 971  | 10TCC-Q75 | 75.0  | 32c  |
| 19 L 972  | 10TCC-T10 | 100.0 | 32c  |
| 19 L 973  | 10TCC-T12 | 120.0 | 35c  |
| 19 L 974  | 10TCC-T15 | 150.0 | 35c  |
| 19 L 975  | 10TCC-T22 | 220.0 | 41c  |
| 19 L 977  | 10TCC-T27 | 270.0 | 47c  |

### SERIES 10TCU N750 CERAMICS

A negative temperature coefficient capacitor with a negative change of 750 parts per million per degree Centigrade. 1000 WVDC. All capacitors listed below are disc type except \*rectangular. Av. shpg. wt., 2 oz.

| Stock No. | Type | Mmfd | Stock No. | Type | Mmfd |
|-----------|------|------|-----------|------|------|
| 19 L 978  | V50* | 5    | 19 L 986  | Q68  | 68   |
| 19 L 979  | Q10  | 10   | 19 L 987  | Q75  | 75   |
| 19 L 980  | Q15  | 15   | 19 L 988  | T10  | 100  |
| 19 L 981  | Q18  | 18   | 19 L 989  | T15  | 150  |
| 19 L 982  | Q22  | 22   | 19 L 990  | T20  | 200  |
| 19 L 983  | Q25  | 25   | 19 L 991  | T22  | 220  |
| 19 L 984  | Q33  | 33   | 19 L 992  | T33  | 330  |
| 19 L 985  | Q47  | 47   |           |      |      |

NET EACH... 29c

| Stock No. | Type      | Mmfd | EACH |
|-----------|-----------|------|------|
| 19 L 993  | 10TCU-T47 | 470  | 41c  |
| 19 L 994  | 10TCU-T68 | 680  | 47c  |

### SERIES BL BUFFER CERAMICS

2000 WVDC disc ceramic type capacitors for buffer applications. Tiny, rugged construction. Moisture-proof coating assures high dependability. Perfect for use in highly compact equipment. Tolerance, ±20%. Av. shpg. wt., 2 oz.

| Stock No. | Type   | Mmfd | Stock No. | Type   | Mmfd  |
|-----------|--------|------|-----------|--------|-------|
| 16 L 290  | BL-D10 | .001 | 16 L 295  | BL-D60 | .006  |
| 16 L 291  | BL-D20 | .002 | 16 L 296  | BL-D75 | .0075 |
| 16 L 292  | BL-D30 | .003 | 16 L 297  | BL-D75 | .0075 |
| 16 L 293  | BL-D40 | .004 | 16 L 298  | BL-D80 | .008  |
| 16 L 294  | BL-D50 | .005 | 16 L 299  | BL-S10 | .01   |

NET EACH... 21c

### DOORKNOB CAPACITORS

High-voltage, 500-mmf plastic capacitors for replacement use in all types of TV sets. Moisture-resistant, heat-shielding, molded plastic. Molded guard rings increase surface leakage path. Capacitor body has threaded ends for variety of screw-in terminals. 200K-1'S is supplied with 14 terminals (2K of each type shown). Type 30KD-T5 with only 2 terminals indicated by \*. Shpg. wt., 4 oz.



| Stock No. | Type    | KV Rating | Dia. x Length | NET       |
|-----------|---------|-----------|---------------|-----------|
| 15 L 599  | 200K-T5 | 20        | 1 1/2x1 1/2"  | 1.09/psr. |
| 15 L 599  | 300K-T5 | 30        | 1 1/2x1 1/2"  | 1.76/psr. |

### UNIVERSAL CERAMICS

Offers large variety of ratings. Includes complete instructions. \*Guaranteed minimum value; † have tolerance of ±20%. Rated at 500 WVDC. Av. shpg. wt., 3 oz.

| Stock No. | Mfr's Type | Capacity Range, Mfd | Size                                                   | NET EACH |
|-----------|------------|---------------------|--------------------------------------------------------|----------|
| 15L216    | *UHK-1     | .001-.004           | $1\frac{3}{8} \times \frac{5}{8} \times \frac{3}{8}$ " | 29c      |
| 15L217    | *UHK-2     | .0025-.015          | $1\frac{1}{2} \times \frac{5}{8} \times \frac{3}{8}$ " | 35c      |
| 15L218    | †UGA-1     | .0004-.0013         | $2\frac{5}{8} \times \frac{5}{8} \times \frac{3}{8}$ " | 29c      |
| 15L219    | †UGA-2     | .0006-.0027         | $1\frac{1}{2} \times \frac{5}{8} \times \frac{3}{8}$ " | 35c      |

# Cornell-Dubilier Capacitors

## "BLUE BEAVER" TUBULAR ELECTROLYTICS



BR



BBR



BBRD



BBRQ



BRHV

"Blue Beaver" tubular electrolytic capacitors are specifically designed for service replacement applications. All are sealed in aluminum cans for protection against heat, humidity. Type BR has solid, tinned-copper leads with negative terminal grounded to can. Type BBR is a miniature version of Type BR for limited-space applications. Type BRHV is similar to Type BR, but is designed

for filter applications in higher-voltage power supplies. Surge voltage of Type BRHV is 150 volts above working voltage. Types BBRD, BBRQ, and BBRQ have 7" flexible vinyl covered leads with color coded positive and common negative. All "Blue Beavers" are rated for operation up to 85°C, except 500-volt types, which are for up to 65°C. Av. shpg. wt., 4 oz.

### TYPE BR SINGLE SECTION

| Stock No. | Type      | Mfd                  | W.V. | Size In.  | NET  |
|-----------|-----------|----------------------|------|-----------|------|
| 19 L 285  | 500-6     | 5000                 | 6    | 3/4x1 1/4 | .91  |
| 19 L 287  | 2000-2000 | 5000                 | 6    | 1x2 1/2   | 1.35 |
| 19 L 272  | 2501      | 250                  | 15   | 3/4x1 1/4 | .91  |
| 19 L 273  | 5001      | 500                  | 15   | 1x2       | 1.03 |
| 19 L 274  | 10001     | 1000                 | 15   | 1x2       | 1.35 |
| 19 L 284  | 20001     | 2000                 | 15   | 1x3       | 1.88 |
| 19 L 270  | 2502      | 250                  | 25   | 3/4x1 1/4 | 1.00 |
| 19 L 271  | 5002      | 500                  | 25   | 1x2       | 1.35 |
| 19 L 147  | 1005      | 100                  | 50   | 3/4x1 1/4 | .82  |
| 19 L 148  | 1505      | 150                  | 50   | 1x2       | .91  |
| 19 L 149  | 2505      | 250                  | 50   | 3/4x1 1/4 | 1.03 |
| 19 L 150  | 5005      | 500                  | 50   | 1x3       | 1.41 |
| 19 L 145  | 2515      | 25                   | 150  | 3/4x1 1/4 | .73  |
| 19 L 146  | 5015      | 30                   | 150  | 1x2       | .76  |
| 19 L 147  | 10015     | 40                   | 150  | 1x2 1/2   | .79  |
| 19 L 148  | 20015     | 50                   | 150  | 1x3       | .82  |
| 19 L 149  | 50015     | 60                   | 150  | 1x3 1/4   | .88  |
| 19 L 150  | 10015     | 80                   | 150  | 1x4       | .94  |
| 19 L 151  | 20015     | 100                  | 150  | 1x5       | 1.03 |
| 19 L 152  | 50015     | 150                  | 150  | 1x6       | 1.12 |
| 19 L 542  | 20015     | 200                  | 150  | 1x3       | 1.29 |
| 19 L 543  | 30015     | 300                  | 150  | 1x3 1/4   | 1.50 |
| 19 L 142  | 1625      | 16                   | 250  | 3/4x1 1/4 | .62  |
| 19 L 143  | 3025      | 20                   | 250  | 1x2       | .79  |
| 19 L 144  | 4025      | 30                   | 250  | 1x2 1/2   | .85  |
| 19 L 145  | 6025      | 40                   | 250  | 1x3       | .91  |
| 19 L 146  | 8025      | 50                   | 250  | 1x3 1/4   | .98  |
| 19 L 147  | 10025     | 60                   | 250  | 1x4       | 1.00 |
| 19 L 148  | 15025     | 80                   | 250  | 1x5       | 1.06 |
| 19 L 149  | 20025     | 100                  | 250  | 1x6       | 1.29 |
| 19 L 150  | 30025     | 150                  | 250  | 1x8       | .70  |
| 19 L 151  | 50025     | 250                  | 250  | 1x10      | .85  |
| 19 L 152  | 10025     | 400                  | 250  | 1x12      | 1.03 |
| 19 L 153  | 20025     | 600                  | 250  | 1x14      | 1.23 |
| 19 L 154  | 50025     | 1000                 | 250  | 1x16      | 1.35 |
| 19 L 155  | 10025     | 1500                 | 250  | 1x18      | 1.41 |
| 19 L 156  | 20025     | 2000                 | 250  | 1x20      | 1.47 |
| 19 L 157  | 50025     | 3000                 | 250  | 1x22      | 1.53 |
| 19 L 158  | 10025     | 4000                 | 250  | 1x24      | 1.59 |
| 19 L 159  | 20025     | 5000                 | 250  | 1x26      | 1.65 |
| 19 L 160  | 50025     | 6000                 | 250  | 1x28      | 1.71 |
| 19 L 161  | 10025     | 8000                 | 250  | 1x30      | 1.77 |
| 19 L 162  | 20025     | 10000                | 250  | 1x32      | 1.83 |
| 19 L 163  | 50025     | 12000                | 250  | 1x34      | 1.89 |
| 19 L 164  | 10025     | 15000                | 250  | 1x36      | 1.95 |
| 19 L 165  | 20025     | 20000                | 250  | 1x38      | 2.01 |
| 19 L 166  | 50025     | 25000                | 250  | 1x40      | 2.07 |
| 19 L 167  | 10025     | 30000                | 250  | 1x42      | 2.13 |
| 19 L 168  | 20025     | 40000                | 250  | 1x44      | 2.19 |
| 19 L 169  | 50025     | 50000                | 250  | 1x46      | 2.25 |
| 19 L 170  | 10025     | 60000                | 250  | 1x48      | 2.31 |
| 19 L 171  | 20025     | 80000                | 250  | 1x50      | 2.37 |
| 19 L 172  | 50025     | 100000               | 250  | 1x52      | 2.43 |
| 19 L 173  | 10025     | 150000               | 250  | 1x54      | 2.49 |
| 19 L 174  | 20025     | 200000               | 250  | 1x56      | 2.55 |
| 19 L 175  | 50025     | 300000               | 250  | 1x58      | 2.61 |
| 19 L 176  | 10025     | 400000               | 250  | 1x60      | 2.67 |
| 19 L 177  | 20025     | 500000               | 250  | 1x62      | 2.73 |
| 19 L 178  | 50025     | 600000               | 250  | 1x64      | 2.79 |
| 19 L 179  | 10025     | 800000               | 250  | 1x66      | 2.85 |
| 19 L 180  | 20025     | 1000000              | 250  | 1x68      | 2.91 |
| 19 L 181  | 50025     | 1500000              | 250  | 1x70      | 2.97 |
| 19 L 182  | 10025     | 2000000              | 250  | 1x72      | 3.03 |
| 19 L 183  | 20025     | 3000000              | 250  | 1x74      | 3.09 |
| 19 L 184  | 50025     | 4000000              | 250  | 1x76      | 3.15 |
| 19 L 185  | 10025     | 5000000              | 250  | 1x78      | 3.21 |
| 19 L 186  | 20025     | 6000000              | 250  | 1x80      | 3.27 |
| 19 L 187  | 50025     | 8000000              | 250  | 1x82      | 3.33 |
| 19 L 188  | 10025     | 10000000             | 250  | 1x84      | 3.39 |
| 19 L 189  | 20025     | 15000000             | 250  | 1x86      | 3.45 |
| 19 L 190  | 50025     | 20000000             | 250  | 1x88      | 3.51 |
| 19 L 191  | 10025     | 30000000             | 250  | 1x90      | 3.57 |
| 19 L 192  | 20025     | 40000000             | 250  | 1x92      | 3.63 |
| 19 L 193  | 50025     | 50000000             | 250  | 1x94      | 3.69 |
| 19 L 194  | 10025     | 60000000             | 250  | 1x96      | 3.75 |
| 19 L 195  | 20025     | 80000000             | 250  | 1x98      | 3.81 |
| 19 L 196  | 50025     | 100000000            | 250  | 1x100     | 3.87 |
| 19 L 197  | 10025     | 150000000            | 250  | 1x102     | 3.93 |
| 19 L 198  | 20025     | 200000000            | 250  | 1x104     | 3.99 |
| 19 L 199  | 50025     | 300000000            | 250  | 1x106     | 4.05 |
| 19 L 200  | 10025     | 400000000            | 250  | 1x108     | 4.11 |
| 19 L 201  | 20025     | 500000000            | 250  | 1x110     | 4.17 |
| 19 L 202  | 50025     | 600000000            | 250  | 1x112     | 4.23 |
| 19 L 203  | 10025     | 800000000            | 250  | 1x114     | 4.29 |
| 19 L 204  | 20025     | 1000000000           | 250  | 1x116     | 4.35 |
| 19 L 205  | 50025     | 1500000000           | 250  | 1x118     | 4.41 |
| 19 L 206  | 10025     | 2000000000           | 250  | 1x120     | 4.47 |
| 19 L 207  | 20025     | 3000000000           | 250  | 1x122     | 4.53 |
| 19 L 208  | 50025     | 4000000000           | 250  | 1x124     | 4.59 |
| 19 L 209  | 10025     | 5000000000           | 250  | 1x126     | 4.65 |
| 19 L 210  | 20025     | 6000000000           | 250  | 1x128     | 4.71 |
| 19 L 211  | 50025     | 8000000000           | 250  | 1x130     | 4.77 |
| 19 L 212  | 10025     | 10000000000          | 250  | 1x132     | 4.83 |
| 19 L 213  | 20025     | 15000000000          | 250  | 1x134     | 4.89 |
| 19 L 214  | 50025     | 20000000000          | 250  | 1x136     | 4.95 |
| 19 L 215  | 10025     | 30000000000          | 250  | 1x138     | 5.01 |
| 19 L 216  | 20025     | 40000000000          | 250  | 1x140     | 5.07 |
| 19 L 217  | 50025     | 50000000000          | 250  | 1x142     | 5.13 |
| 19 L 218  | 10025     | 60000000000          | 250  | 1x144     | 5.19 |
| 19 L 219  | 20025     | 80000000000          | 250  | 1x146     | 5.25 |
| 19 L 220  | 50025     | 100000000000         | 250  | 1x148     | 5.31 |
| 19 L 221  | 10025     | 150000000000         | 250  | 1x150     | 5.37 |
| 19 L 222  | 20025     | 200000000000         | 250  | 1x152     | 5.43 |
| 19 L 223  | 50025     | 300000000000         | 250  | 1x154     | 5.49 |
| 19 L 224  | 10025     | 400000000000         | 250  | 1x156     | 5.55 |
| 19 L 225  | 20025     | 500000000000         | 250  | 1x158     | 5.61 |
| 19 L 226  | 50025     | 600000000000         | 250  | 1x160     | 5.67 |
| 19 L 227  | 10025     | 800000000000         | 250  | 1x162     | 5.73 |
| 19 L 228  | 20025     | 1000000000000        | 250  | 1x164     | 5.79 |
| 19 L 229  | 50025     | 1500000000000        | 250  | 1x166     | 5.85 |
| 19 L 230  | 10025     | 2000000000000        | 250  | 1x168     | 5.91 |
| 19 L 231  | 20025     | 3000000000000        | 250  | 1x170     | 5.97 |
| 19 L 232  | 50025     | 4000000000000        | 250  | 1x172     | 6.03 |
| 19 L 233  | 10025     | 5000000000000        | 250  | 1x174     | 6.09 |
| 19 L 234  | 20025     | 6000000000000        | 250  | 1x176     | 6.15 |
| 19 L 235  | 50025     | 8000000000000        | 250  | 1x178     | 6.21 |
| 19 L 236  | 10025     | 10000000000000       | 250  | 1x180     | 6.27 |
| 19 L 237  | 20025     | 15000000000000       | 250  | 1x182     | 6.33 |
| 19 L 238  | 50025     | 20000000000000       | 250  | 1x184     | 6.39 |
| 19 L 239  | 10025     | 30000000000000       | 250  | 1x186     | 6.45 |
| 19 L 240  | 20025     | 40000000000000       | 250  | 1x188     | 6.51 |
| 19 L 241  | 50025     | 50000000000000       | 250  | 1x190     | 6.57 |
| 19 L 242  | 10025     | 60000000000000       | 250  | 1x192     | 6.63 |
| 19 L 243  | 20025     | 80000000000000       | 250  | 1x194     | 6.69 |
| 19 L 244  | 50025     | 100000000000000      | 250  | 1x196     | 6.75 |
| 19 L 245  | 10025     | 150000000000000      | 250  | 1x198     | 6.81 |
| 19 L 246  | 20025     | 200000000000000      | 250  | 1x200     | 6.87 |
| 19 L 247  | 50025     | 300000000000000      | 250  | 1x202     | 6.93 |
| 19 L 248  | 10025     | 400000000000000      | 250  | 1x204     | 6.99 |
| 19 L 249  | 20025     | 500000000000000      | 250  | 1x206     | 7.05 |
| 19 L 250  | 50025     | 600000000000000      | 250  | 1x208     | 7.11 |
| 19 L 251  | 10025     | 800000000000000      | 250  | 1x210     | 7.17 |
| 19 L 252  | 20025     | 1000000000000000     | 250  | 1x212     | 7.23 |
| 19 L 253  | 50025     | 1500000000000000     | 250  | 1x214     | 7.29 |
| 19 L 254  | 10025     | 2000000000000000     | 250  | 1x216     | 7.35 |
| 19 L 255  | 20025     | 3000000000000000     | 250  | 1x218     | 7.41 |
| 19 L 256  | 50025     | 4000000000000000     | 250  | 1x220     | 7.47 |
| 19 L 257  | 10025     | 5000000000000000     | 250  | 1x222     | 7.53 |
| 19 L 258  | 20025     | 6000000000000000     | 250  | 1x224     | 7.59 |
| 19 L 259  | 50025     | 8000000000000000     | 250  | 1x226     | 7.65 |
| 19 L 260  | 10025     | 10000000000000000    | 250  | 1x228     | 7.71 |
| 19 L 261  | 20025     | 15000000000000000    | 250  | 1x230     | 7.77 |
| 19 L 262  | 50025     | 20000000000000000    | 250  | 1x232     | 7.83 |
| 19 L 263  | 10025     | 30000000000000000    | 250  | 1x234     | 7.89 |
| 19 L 264  | 20025     | 40000000000000000    | 250  | 1x236     | 7.95 |
| 19 L 265  | 50025     | 50000000000000000    | 250  | 1x238     | 8.01 |
| 19 L 266  | 10025     | 60000000000000000    | 250  | 1x240     | 8.07 |
| 19 L 267  | 20025     | 80000000000000000    | 250  | 1x242     | 8.13 |
| 19 L 268  | 50025     | 100000000000000000   | 250  | 1x244     | 8.19 |
| 19 L 269  | 10025     | 150000000000000000   | 250  | 1x246     | 8.25 |
| 19 L 270  | 20025     | 200000000000000000   | 250  | 1x248     | 8.31 |
| 19 L 271  | 50025     | 300000000000000000   | 250  | 1x250     | 8.37 |
| 19 L 272  | 10025     | 400000000000000000   | 250  | 1x252     | 8.43 |
| 19 L 273  | 20025     | 500000000000000000   | 250  | 1x254     | 8.49 |
| 19 L 274  | 50025     | 600000000000000000   | 250  | 1x256     | 8.55 |
| 19 L 275  | 10025     | 800000000000000000   | 250  | 1x258     | 8.61 |
| 19 L 276  | 20025     | 1000000000000000000  | 250  | 1x260     | 8.67 |
| 19 L 277  | 50025     | 1500000000000000000  | 250  | 1x262     | 8.73 |
| 19 L 278  | 10025     | 2000000000000000000  | 250  | 1x264     | 8.79 |
| 19 L 279  | 20025     | 3000000000000000000  | 250  | 1x266     | 8.85 |
| 19 L 280  | 50025     | 4000000000000000000  | 250  | 1x268     | 8.91 |
| 19 L 281  | 10025     | 5000000000000000000  | 250  | 1x270     | 8.97 |
| 19 L 282  | 20025     | 6000000000000000000  | 250  | 1x272     | 9.03 |
| 19 L 283  | 50025     | 8000000000000000000  | 250  | 1x274     | 9.09 |
| 19 L 284  | 10025     | 10000000000000000000 | 250  | 1x276     | 9.15 |
| 19 L 285  | 20025     | 15000000000000000000 | 250  | 1x278     | 9.21 |
| 19 L 286  | 5         |                      |      |           |      |



# Cornell-Dubilier Capacitors

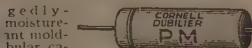
## 3" HIGH-VOLTAGE CAPACITORS



3" tubular capacitors for general replacement. Molded in extra-hard, non-inflammable bakelite, resistant to moisture and high temperature. Copperweld leads solder-sealed to interior. Dry assembled and sealed after operation. Temperature range is -55° to +125°C. Tolerance,  $\pm 20\%$ . Av. shpg. wt., 4 oz.

| No. | Type  | Mfd.   | WVDC   | Size                               | EACH |
|-----|-------|--------|--------|------------------------------------|------|
| 073 | 1001  | .001   | 1000   | $\frac{3}{8} \times 1\frac{1}{2}$  | .29  |
| 081 | 1003  | .005   | 1000   | $\frac{3}{8} \times 1\frac{1}{2}$  | .29  |
| 084 | 1005  | .010   | 1000   | $\frac{3}{8} \times 1\frac{1}{2}$  | .29  |
| 089 | 1051  | .01    | 1000   | $\frac{3}{8} \times 1\frac{1}{2}$  | .29  |
| 095 | 10547 | .047   | 1000   | $\frac{3}{8} \times 1\frac{1}{2}$  | .35  |
| 096 | 1055  | .05    | 1000   | $1\frac{1}{8} \times 1\frac{1}{2}$ | .35  |
| 098 | 1051  | .1     | 1000   | $\frac{3}{8} \times 2\frac{1}{2}$  | .44  |
| 051 | 1601  | .001   | 1600   | $\frac{3}{8} \times 1\frac{1}{2}$  | .38  |
| 052 | 1602  | .002   | 1600   | $\frac{3}{8} \times 1\frac{1}{2}$  | .38  |
| 054 | 16022 | .0022  | 1600   | $\frac{3}{8} \times 1\frac{1}{2}$  | .38  |
| 057 | 1604  | .004   | 1600   | $\frac{3}{8} \times 1\frac{1}{2}$  | .38  |
| 058 | 16047 | .0047  | 1600   | $\frac{3}{8} \times 1\frac{1}{2}$  | .38  |
| 059 | 1605  | .005   | 1600   | $\frac{3}{8} \times 1\frac{1}{2}$  | .38  |
| 060 | 1606  | .006   | 1600   | $\frac{3}{8} \times 1\frac{1}{2}$  | .38  |
| 061 | 16068 | .0068  | 1600   | $\frac{3}{8} \times 1\frac{1}{2}$  | .38  |
| 062 | 1607  | .007   | 1600   | $\frac{3}{8} \times 1\frac{1}{2}$  | .38  |
| 064 | 1608  | .008   | 1600   | $\frac{3}{8} \times 1\frac{1}{2}$  | .38  |
| 065 | 16S1  | .01    | 1600   | $\frac{3}{8} \times 1\frac{1}{2}$  | .41  |
| 067 | 16S2  | .02    | 1600   | $\frac{3}{8} \times 1\frac{1}{2}$  | .41  |
| 068 | 16S22 | .022   | 1600   | $\frac{3}{8} \times 1\frac{1}{2}$  | .41  |
| 069 | 16S3  | .03    | 1600   | $\frac{3}{8} \times 1\frac{1}{2}$  | .41  |
| 071 | 16S33 | .033   | 1600   | $\frac{3}{8} \times 2\frac{1}{2}$  | .41  |
| 076 | 6001  | .001   | 6000   | $\frac{3}{8} \times 1\frac{1}{2}$  | .79  |
| 077 | 6005  | .005   | 6000   | $\frac{3}{8} \times 1\frac{1}{2}$  | .79  |
| 080 | 10075 | .0005  | 10,000 | $\frac{3}{8} \times 1\frac{1}{2}$  | .88  |
| 085 | 12575 | .00025 | 12,500 | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.00 |

## MOLDED "MYLAR" TUBULARS



gedly moisture-resistant molded tubular capacitors for use in applications involving severe operating temperatures and high temperatures. Feature "Mylar" polyester film dielectric. All units have insulation resistance and low RF impedance. Capacity tolerance is  $\pm 10\%$ . Temperature range is -55°C to +135°C—derate at rated voltage at 100°C and derate 50% at 10°C. Full voltage rating up to 85°C. Temperature resistance exceeds JAN-C-91 or MIL-A requirements. Av. shpg. wt., 3 oz.

| No. | Mfr's Type | Mfd.  | WV DC | Size                               | NET EACH |
|-----|------------|-------|-------|------------------------------------|----------|
| 273 | 252        | .02   | 200   | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.56     |
| 274 | 255        | .05   | 200   | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.56     |
| 275 | 2P1        | .1    | 200   | $\frac{3}{8} \times 1\frac{1}{2}$  | 2.26     |
| 276 | 2P2        | .2    | 200   | $\frac{3}{8} \times 1\frac{1}{2}$  | 2.26     |
| 277 | 2P25       | .25   | 200   | $\frac{3}{8} \times 2\frac{1}{2}$  | 2.26     |
| 278 | 2P47       | .47   | 200   | $\frac{3}{8} \times 1\frac{1}{2}$  | 3.64     |
| 279 | 2P5        | .5    | 200   | $\frac{3}{8} \times 1\frac{1}{2}$  | 3.64     |
| 286 | 2W1        | .01   | 200   | $\frac{3}{8} \times 2\frac{1}{2}$  | 6.26     |
| 293 | 4S1        | .01   | 400   | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.56     |
| 294 | 4S2        | .02   | 400   | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.56     |
| 614 | 4S22       | .022  | 400   | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.84     |
| 615 | 4S33       | .033  | 400   | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.84     |
| 616 | 4S47       | .047  | 400   | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.84     |
| 295 | 4S5        | .05   | 400   | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.84     |
| 617 | 4S68       | .068  | 400   | $\frac{3}{8} \times 1\frac{1}{2}$  | 2.26     |
| 296 | 4P1        | .1    | 400   | $\frac{3}{8} \times 1\frac{1}{2}$  | 2.26     |
| 297 | 4P2        | .2    | 400   | $\frac{3}{8} \times 1\frac{1}{2}$  | 2.26     |
| 298 | 4P25       | .25   | 400   | $\frac{3}{8} \times 1\frac{1}{2}$  | 2.26     |
| 618 | 4P33       | .33   | 400   | $1\frac{1}{8} \times 1\frac{1}{2}$ | 3.64     |
| 299 | 4P47       | .47   | 400   | $\frac{3}{8} \times 2\frac{1}{2}$  | 4.44     |
| 243 | 4P5        | .5    | 400   | $\frac{3}{8} \times 2\frac{1}{2}$  | 4.44     |
| 619 | 4P68       | .68   | 400   | $1\frac{1}{8} \times 1\frac{1}{2}$ | 5.24     |
| 244 | 4W1        | 1.00  | 400   | $1\frac{1}{8} \times 2\frac{1}{2}$ | 7.36     |
| 158 | 6T5        | .0005 | 600   | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.56     |
| 159 | 6D1        | .0010 | 600   | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.56     |
| 778 | 6D2        | .002  | 600   | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.56     |
| 167 | 6D22       | .0022 | 600   | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.56     |
| 168 | 6D3        | .003  | 600   | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.56     |
| 169 | 6D47       | .0047 | 600   | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.56     |
| 779 | 6D5        | .005  | 600   | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.56     |
| 621 | 6D68       | .0068 | 600   | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.84     |
| 178 | 6S1        | .010  | 600   | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.84     |
| 179 | 6S15       | .015  | 600   | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.84     |
| 780 | 6S2        | .02   | 600   | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.84     |
| 180 | 6S22       | .022  | 600   | $\frac{3}{8} \times 1\frac{1}{2}$  | 1.84     |
| 622 | 6S33       | .033  | 600   | $\frac{3}{8} \times 1\frac{1}{2}$  | 2.26     |
| 182 | 6S47       | .047  | 600   | $\frac{3}{8} \times 1\frac{1}{2}$  | 2.26     |
| 623 | 6S5        | .05   | 600   | $\frac{3}{8} \times 1\frac{1}{2}$  | 2.26     |
| 183 | 6S68       | .068  | 600   | $\frac{3}{8} \times 1\frac{1}{2}$  | 2.26     |
| 184 | 6P1        | .1    | 600   | $\frac{3}{8} \times 1\frac{1}{2}$  | 2.26     |
| 197 | 6P22       | .22   | 600   | $\frac{3}{8} \times 2\frac{1}{2}$  | 4.44     |
| 198 | 6P33       | .33   | 600   | $1\frac{1}{8} \times 1\frac{1}{2}$ | 5.24     |
| 199 | 6P47       | .47   | 600   | $1\frac{1}{8} \times 2\frac{1}{2}$ | 7.36     |

## WMF "MYLAR" FILM-ENCASED TUBULAR CAPACITORS

Film-encased, ultra-compact, tubular capacitors featuring a "Mylar" film dielectric. Designed for transistor applications in computer and military circuits, instrumentation, test equipment, etc. Combine small size with exceptional strength and durability, and excellent stability with temperature and life. Also feature high insulation resistance and low power factor. End-sealed with high-density thermosetting plastic. Non-inductive, extended foil construction with tinned wire leads soldered directly to foil for low resistance connections and low RF impedance. Temperature range: -55° to +125°C. Derate voltage 10% at 100°C, 50% at 125°C. Full voltage to 85°C. Capacity tolerance  $\pm 10\%$ . Av. shpg. wt., 2 oz.



| 200 VOLTS DC WORKING |         |       |                                  |      |  | 400 VOLTS DC WORKING |         |       |                                  |      |  |
|----------------------|---------|-------|----------------------------------|------|--|----------------------|---------|-------|----------------------------------|------|--|
| Stock No.            | Type    | Mfd   | Size                             | EACH |  | Stock No.            | Type    | Mfd   | Size                             | EACH |  |
| 16 L 877             | 2D1E    | .001  |                                  |      |  | 16 L 826             | 4D1E    | .001  | $\frac{3}{8} \times \frac{3}{4}$ | .21  |  |
| 16 L 878             | 2D15E   | .0015 |                                  |      |  | 16 L 828             | 4D15E   | .0015 | $\frac{3}{8} \times \frac{3}{4}$ | .21  |  |
| 16 L 879             | 2D22E   | .0022 |                                  |      |  | 16 L 829             | 4D22E   | .0022 | $\frac{3}{8} \times \frac{3}{4}$ | .21  |  |
| 16 L 880             | 2D33E   | .0033 | $\frac{5}{8} \times \frac{1}{2}$ | .21  |  | 16 L 828             | 4D33E   | .0033 | $\frac{3}{8} \times \frac{3}{4}$ | .24  |  |
| 16 L 881             | 2D47E   | .0047 |                                  |      |  | 16 L 830             | 4D47E   | .0047 | $\frac{3}{8} \times \frac{3}{4}$ | .24  |  |
| 16 L 882             | 2D68E   | .0068 |                                  |      |  | 16 L 831             | 4D68E   | .0068 | $\frac{3}{8} \times \frac{3}{4}$ | .24  |  |
| 16 L 883             | 2S1E    | .01   | $\frac{1}{8} \times \frac{1}{2}$ | .21  |  | 16 L 832             | 4S1E    | .01   | $\frac{1}{8} \times \frac{3}{4}$ | .26  |  |
| 16 L 884             | 2S15E   | .015  | $\frac{1}{8} \times \frac{1}{2}$ | .21  |  | 16 L 833             | 4S15E   | .015  | $\frac{1}{8} \times \frac{3}{4}$ | .26  |  |
| 16 L 885             | 2S22E   | .022  | $\frac{1}{8} \times \frac{1}{2}$ | .24  |  | 16 L 834             | 4S22E   | .022  | $\frac{1}{8} \times \frac{3}{4}$ | .26  |  |
| 16 L 886             | 2S33E   | .033  | $\frac{1}{8} \times \frac{1}{2}$ | .24  |  | 16 L 835             | 4S33E   | .033  | $\frac{1}{8} \times \frac{3}{4}$ | .26  |  |
| 16 L 887             | 2S47E   | .047  | $\frac{1}{8} \times \frac{1}{2}$ | .27  |  | 16 L 836             | 4S47E   | .047  | $\frac{1}{8} \times \frac{3}{4}$ | .26  |  |
| 16 L 888             | 2S68E   | .068  | $\frac{1}{8} \times \frac{1}{2}$ | .27  |  | 16 L 837             | 4S68E   | .068  | $\frac{1}{8} \times \frac{3}{4}$ | .26  |  |
| 16 L 889             | 2P1E    | .1    | $\frac{1}{8} \times \frac{1}{2}$ | .25  |  | 16 L 838             | 4P1E    | .1    | $\frac{1}{8} \times \frac{1}{2}$ | .32  |  |
| 16 L 890             | 2P15E   | .15   | $\frac{1}{8} \times \frac{1}{2}$ | .35  |  | 16 L 839             | 4P15E   | .15   | $\frac{1}{8} \times \frac{1}{2}$ | .36  |  |
| 16 L 891             | 2P22E   | .22   | $\frac{1}{8} \times \frac{1}{2}$ | .38  |  | 16 L 840             | 4P22E   | .22   | $\frac{1}{8} \times \frac{1}{2}$ | .41  |  |
| 16 L 892             | 2P33E   | .33   | $\frac{1}{8} \times \frac{1}{2}$ | .44  |  | 16 L 841             | 4P33E   | .33   | $\frac{1}{8} \times \frac{1}{2}$ | .65  |  |
| 16 L 893             | 2P47E   | .47   | $\frac{3}{8} \times \frac{1}{4}$ | .50  |  | 16 L 842             | 4P47E   | .47   | $\frac{1}{2} \times \frac{1}{8}$ | .76  |  |
| 16 L 894             | 2P68E   | .68   | $\frac{3}{8} \times \frac{1}{4}$ | .56  |  | 16 L 843             | 4P68E   | .68   | $\frac{1}{2} \times \frac{1}{8}$ | .94  |  |
| 16 L 895             | 2W1E    | 1.0   | $\frac{1}{8} \times \frac{1}{2}$ | .85  |  | 16 L 844             | 4W1E    | 1.0   | $\frac{1}{2} \times \frac{1}{8}$ | 1.18 |  |
| 16 L 896             | 2W1P25E | 1.25  | $\frac{3}{8} \times \frac{1}{4}$ | .73  |  | 16 L 845             | 4W1P25E | 1.25  | $\frac{1}{2} \times \frac{1}{8}$ | 1.35 |  |
| 16 L 897             | 2W1P5E  | 1.5   | $\frac{3}{8} \times \frac{1}{4}$ | 1.23 |  | 16 L 846             | 4W1P5E  | 1.5   | $\frac{1}{2} \times \frac{1}{8}$ | 1.53 |  |
| 16 L 898             | 2W2E    | 2.0   | $\frac{3}{8} \times \frac{1}{4}$ | 1.47 |  | 16 L 847             | 4W2E    | 2.0   | $\frac{1}{2} \times \frac{1}{8}$ | 2.00 |  |

| 600 VOLTS DC WORKING |       |       |                                  |     |  | 600 VOLTS DC WORKING |         |      |                                    |      |  |
|----------------------|-------|-------|----------------------------------|-----|--|----------------------|---------|------|------------------------------------|------|--|
| Stock No.            | Type  | Mfd   | Size                             | NET |  | Stock No.            | Type    | Mfd  | Size                               | NET  |  |
| 20 L 604             | 6D1E  | .001  | $\frac{3}{8} \times \frac{3}{4}$ | .24 |  | 20 L 615             | 6S68E   | .068 | $1\frac{1}{2} \times 1\frac{1}{2}$ | .35  |  |
| 20 L 605             | 6D15E | .0015 | $\frac{3}{8} \times \frac{3}{4}$ | .24 |  | 20 L 616             | 6P1E    | .1   | $\frac{1}{2} \times 1\frac{1}{8}$  | .41  |  |
| 20 L 606             | 6D22E | .0022 | $\frac{3}{8} \times \frac{3}{4}$ | .24 |  | 20 L 617             | 6P15E   | .15  | $\frac{1}{2} \times 1\frac{1}{8}$  | .44  |  |
| 20 L 607             | 6D33E | .0033 | $\frac{3}{8} \times \frac{3}{4}$ | .24 |  | 20 L 618             | 6P22E   | .22  | $\frac{1}{2} \times 1\frac{1}{8}$  | .50  |  |
| 20 L 608             | 6D47E | .0047 | $\frac{3}{8} \times \frac{3}{4}$ | .24 |  | 20 L 619             | 6P33E   | .33  | $\frac{1}{2} \times 1\frac{1}{8}$  | .88  |  |
| 20 L 609             | 6D68E | .0068 | $\frac{3}{8} \times \frac{3}{4}$ | .26 |  | 20 L 620             | 6P47E   | .47  | $\frac{1}{2} \times 1\frac{1}{8}$  | 1.12 |  |
| 20 L 610             | 6S1E  | .01   | $\frac{3}{8} \times \frac{3}{4}$ | .29 |  | 20 L 621             | 6P68E   | .68  | $\frac{1}{2} \times 1\frac{1}{8}$  | 1.50 |  |
| 20 L 611             | 6S15E | .015  | $\frac{3}{8} \times \frac{3}{4}$ | .29 |  | 20 L 622             | 6W1E    | 1.0  | $1\frac{1}{2} \times 2\frac{1}{2}$ | 2.50 |  |
| 20 L 612             | 6S22E | .022  | $\frac{3}{8} \times \frac{3}{4}$ | .29 |  | 20 L 623             | 6W1P25E | 1.25 | $1\frac{1}{2} \times 2\frac{1}{2}$ | 2.82 |  |
| 20 L 613             | 6S33E | .033  | $\frac{3}{8} \times \frac{3}{4}$ | .29 |  | 20 L 624             | 6W1P5E  | 1.5  | $1\frac{1}{2} \times 2\frac{1}{2}$ | 3.41 |  |
| 20 L 614             | 6S47E | .047  | $\frac{3}{8} \times \frac{3}{4}$ | .32 |  | 20 L 625             | 6W2E    | 2.0  | $1\frac{1}{2} \times 3\frac{1}{2}$ | 4.29 |  |

## DPMS PAPER "MYLAR"

Type DPMS side-lead tubulars offer high insulation resistance, high operating temperature range, and dual-dielectric. Constructed with "Mylar" polyester film and a film of the highest grade paper. The combination of these two provides a compact capacitor that is ideal for use in printed and transistorized circuits. "Fixfil" impregnant will not crack, soften or flow, even at maximum operating temperatures. Wire leads are held rigidly at fixed spacings. Tough, durable case has high humidity resistance, high dielectric strength against grounding and is unaffected by accidental contact with soldering iron. Temperature range: -55°C to +125°C. Derate voltage 25% at 125°C. Tolerance:  $\pm 10\%$ . Av. shpg. wt., 4 oz.



| Stock No. | Type | Mfd   | WVDC | Size          | NET  | Stock No. | Type | Mfd   | WVDC | Size          | NET  |
|-----------|------|-------|------|---------------|------|-----------|------|-------|------|---------------|------|
| 19 L 785  | 2S2  | .02   | 200  | 1 1/2 x 2 1/2 | 1.56 | 16 L 856  | 6D5  | .005  | 600  | 1 1/2 x 1 1/2 | 1.56 |
| 19 L 781  | 2S47 | .047  | 200  | 2 1/2 x 3 1/2 | 1.84 | 16 L 857  | 6D6  | .006  | 600  | 1 1/2 x 1 1/2 | 1.56 |
| 19 L 782  | 2S5  | .05   | 200  | 2 1/2 x 3 1/2 | 1.84 | 16 L 867  | 6D68 | .0068 | 600  | 3/8 x 1 1/2   | 1.56 |
| 19 L 783  | 2P1  | .1    | 200  | 1 1/2 x 1 3/8 | 2.14 | 16 L 858  | 6D75 | .0075 | 600  | 3/8 x 1/2     | 1.84 |
| 19 L 786  | 2P15 | .15   | 200  | 3/8 x 1 3/8   | 2.44 | 16 L 859  | 6S1  | .01   | 600  | 2 1/2 x 1 1/2 | 1.84 |
| 19 L 784  | 2P25 | .25   | 200  | 3/8 x 1 3/8   | 2.64 | 16 L 860  | 6S2  | .02   | 600  | 7/8 x 1/2     | 1.84 |
| 19 L 787  | 4S1  | .01   | 400  | 3/8 x 1 1/2   | 1.56 | 16 L 861  | 6S22 | .022  | 600  | 1 1/2 x 1 1/2 | 2.14 |
| 19 L 788  | 4S2  | .02   | 400  | 3/8 x 1 1/2   | 1.84 | 16 L 868  | 6S3  | .03   | 600  | 2 1/2 x 1 3/8 | 2.14 |
| 19 L 792  | 4S22 | .022  | 400  | 1 3/2 x 5/2   | 1.84 | 16 L 862  | 6S33 | .033  | 600  | 7/8 x 1 3/2   | 2.14 |
| 19 L 789  | 4S5  | .05   | 400  | 2 7/8 x 1 5/2 | 2.14 | 16 L 863  | 6S47 | .047  | 600  | 3 1/2 x 1 3/2 | 2.14 |
| 19 L 790  | 4P1  | .1    | 400  | 3 3/4 x 1 3/8 | 2.44 | 16 L 864  | 6S5  | .05   | 600  | 3 3/4 x 1 5/2 | 2.44 |
| 19 L 793  | 4P22 | .22   | 400  | 3 3/4 x 1 3/8 | 2.56 | 16 L 865  | 6S68 | .068  | 600  | 3 3/4 x 1 3/4 | 2.60 |
| 19 L 791  | 4P25 | .25   | 400  | 3 3/4 x 1 3/8 | 2.56 | 16 L 866  | 6P1  | .01   | 1600 | 2 1/2 x 1 3/8 | 2.14 |
| 16 L 851  | 6D1  | .001  | 600  | 1 1/2 x 1 1/2 | 1.56 | 16 L 879  | 18D1 | .001  | 1600 | 2 1/2 x 1 1/2 | 2.14 |
| 16 L 852  | 6D15 | .0015 | 600  | 1 1/2 x 1 1/2 | 1.56 | 16 L 876  | 16D2 | .002  | 1600 | 1 3/2 x 1/2   | 2.14 |
| 16 L 853  | 6D2  | .002  | 600  | 1 1/2 x 1 1/2 | 1.56 | 16 L 870  | 16D3 | .003  | 1600 | 3 1/2 x 1/2   | 2.44 |
| 19 L 794  | 6D22 | .0022 | 600  | 1 1/2 x 1 1/2 | 1.56 | 16 L 871  | 16D4 | .004  | 1600 | 3 3/4 x 1/2   | 2.44 |
| 16 L 854  | 6D3  | .003  | 600  | 3/8 x 1 1/2   | 1.56 | 16 L 872  | 16D5 | .005  | 1600 | 1 1/2 x 1/2   | 2.60 |
| 19 L 795  | 6D33 | .0033 | 600  | 3/8 x 1 1/2   | 1.56 | 16 L 873  | 16D6 | .006  | 1600 | 2 1/2 x 1 3/8 | 2.60 |
| 16 L 850  | 6D4  | .004  | 600  | 3/8 x 1 1/2   | 1.56 | 16 L 874  | 16D8 | .008  | 1600 | 3 1/2 x 1 3/8 | 2.60 |
| 16 L 855  | 6D47 | .0047 | 600  | 3/2 x 1 1/2   | 1.56 | 16 L 875  | 16S1 | .01   | 1600 | 3 3/4 x 1 3/8 | 2.90 |

# Cornell-Dubilier and AeroVox Capacitors

## CORNELL-DUBILIER CAPACITORS

### "ROYAL BLUE" PHENOLIC DIP-COATED CAPACITORS



Phenolic dip-coated. Close temp. range, 0 to +70 ppm/°C, max. drift rate, +0.5% per 1000 hours at 100°C. Tol. -5% or 0.5 mfd. CD15 sizes: 1 100 mfd.  $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$  inch,  $\frac{1}{4}$  inch thick. Av. shpg. wt., 2 oz.

| Stock No. | Type      | Mfd | Stock No. | Type      | Mfd |
|-----------|-----------|-----|-----------|-----------|-----|
| 19L 995   | CD15-5V1  | 1   | 20L 011   | CD15-5036 | 36  |
| 19L 996   | CD15-5V2  | 2   | 20L 012   | CD15-5039 | 39  |
| 19L 997   | CD15-5V3  | 3   | 20L 013   | CD15-5043 | 43  |
| 20L 006   | CD15-5022 | 22  | 20L 014   | CD15-5047 | 47  |
| 20L 001   | CD15-5010 | 10  | 20L 015   | CD15-5055 | 55  |
| 20L 002   | CD15-5012 | 12  | 20L 016   | CD15-5051 | 51  |
| 20L 003   | CD15-5015 | 15  | 20L 017   | CD15-5056 | 56  |
| 20L 004   | CD15-5018 | 18  | 20L 018   | CD15-5062 | 62  |
| 20L 005   | CD15-5020 | 20  | 20L 019   | CD15-5068 | 68  |
| 20L 006   | CD15-5022 | 22  | 20L 020   | CD15-5075 | 75  |
| 20L 007   | CD15-5024 | 24  | 20L 021   | CD15-5082 | 82  |
| 20L 008   | CD15-5027 | 27  | 20L 022   | CD15-5091 | 91  |
| 20L 009   | CD15-5030 | 30  | 20L 023   | CD15-571* | 100 |
| 20L 010   | CD15-5033 | 33  |           |           |     |

NET EACH... .12

| Stock No. | Type      | Mfd | Size                                                     | EACH |
|-----------|-----------|-----|----------------------------------------------------------|------|
| 20L 024   | CD15-5711 | 11  |                                                          |      |
| 20L 025   | CD15-5712 | 12  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ inch | .15  |
| 20L 026   | CD15-5713 | 13  |                                                          |      |
| 20L 027   | CD15-5715 | 15  |                                                          |      |
| 20L 028   | CD15-5716 | 16  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ inch | .15  |
| 20L 029   | CD15-5718 | 18  |                                                          | .18  |
| 20L 030   | CD15-5720 | 20  |                                                          | .18  |
| 20L 031   | CD15-5722 | 22  |                                                          | .18  |
| 20L 032   | CD15-5724 | 24  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ inch | .18  |
| 20L 033   | CD15-5725 | 25  |                                                          | .18  |
| 20L 034   | CD15-5727 | 27  |                                                          | .21  |
| 20L 035   | CD15-5730 | 30  |                                                          | .21  |
| 20L 036   | CD15-5733 | 33  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ inch | .24  |
| 20L 037   | CD15-5736 | 36  |                                                          | .24  |
| 20L 038   | CD15-5739 | 39  |                                                          | .26  |



### "SILVER MIKE" MICA CAPACITORS

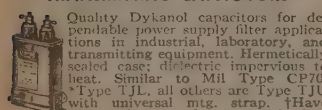
Efficient silver mica midget capacitors. For circuits requiring frequency stability. All rated 500 WVDC. Meet MIL spec values. Subfix J indicates +5%; K indicates +10%.

1R (CM-30) (CM-35) Av. shpg. wt., 2 oz.

Series 22R (CM-15) Size:  $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$  inch

| Stock No. | Type   | MIL Type  | Mfd | EACH |
|-----------|--------|-----------|-----|------|
| 14L 850   | 22R501 | CM15B100K | 10  |      |
| 14L 851   | 22R502 | CM15B150K | 15  | .12  |
| 14L 852   | 22R503 | CM15B200K | 20  |      |
| 14L 853   | 22R504 | CM15B220K | 22  |      |
| 14L 854   | 22R505 | CM15B240K | 24  |      |
| 14L 856   | 22R506 | CM15B300K | 30  |      |
| 14L 857   | 22R507 | CM15B330K | 33  | .12  |
| 14L 858   | 22R508 | CM15B360K | 36  |      |
| 14L 861   | 22R509 | CM15C470J | 47  |      |
| 14L 862   | 22R510 | CM15C500J | 50  |      |
| 14L 863   | 22R511 | CM15C610J | 61  |      |
| 14L 864   | 22R512 | CM15C680J | 68  | .12  |
| 14L 865   | 22R513 | CM15C750J | 75  |      |
| 14L 866   | 22R514 | CM15C820J | 82  | .12  |
| 14L 867   | 22R515 | CM15C101J | 101 |      |
| 14L 868   | 22R516 | CM15C112J | 112 | .15  |
| 14L 869   | 22R517 | CM15C121J | 121 | .15  |

### TJU—TJL HERMETICALLY SEALED TRANSMITTING CAPACITORS



Quality Dykanol capacitors for dependable power supply filter applications in industrial, laboratory, and transmitting circuits. Hermetically sealed case electrically impervious to heat. Similar to Mil Type CP70.

\*Type TJL all others are Type TJU (with universal mtg. strap). Have extra-wide mtg. bracket with dual mtd. holes on each side. All other TJL types have standard wide brackets with single mtg. holes. Range -55° to 85°C. Tolerance: ±10%. Av. shpg. wt., 5 lbs.

| Stock No. | WVDC  | Mfd | Size                                                     | NET   |
|-----------|-------|-----|----------------------------------------------------------|-------|
| 73L 602   | 600   | 4   | $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch | 4.31  |
| 73L 603   | 600   | 8   | $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch | 6.18  |
| 73L 650   | 600   | 10  | $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch | 6.52  |
| 73L 614   | 1000  | 5   | $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch | 2.66  |
| 73L 605   | 1000  | 10  | $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch | 2.88  |
| 73L 606   | 1000  | 2   | $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch | 3.61  |
| 73L 607   | 1000  | 4   | $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch | 4.84  |
| 73L 608   | 1000  | 8   | $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch | 6.92  |
| 73L 651   | 1000  | 10  | $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch | 7.93  |
| 73L 665   | 1000  | 4   | $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch | 10.82 |
| 73L 617   | 2000  | 4   | $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch | 6.00  |
| 73L 610   | 2000* | 8   | $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch | 12.09 |
| 73L 656   | 3000* | 4   | $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch | 17.92 |
| 73L 659   | 4000* | 4   | $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch | 24.67 |

| Stock No. | Type      | Mfd                                                           | Size                                                     | EACH |
|-----------|-----------|---------------------------------------------------------------|----------------------------------------------------------|------|
| 20L 039   | CD15-5743 | 43                                                            |                                                          | .18  |
| 20L 040   | CD15-5747 | 47                                                            |                                                          | .21  |
| 20L 041   | CD15-5751 | 500 $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch  |                                                          | .21  |
| 20L 042   | CD15-5751 | 50                                                            |                                                          | .21  |
| 20L 043   | CD15-5756 | 56                                                            |                                                          | .21  |
| 20L 044   | CD15-5762 | 62                                                            |                                                          | .21  |
| 20L 045   | CD15-5768 | 68                                                            | $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch | .24  |
| 20L 046   | CD15-5775 | 75                                                            |                                                          | .24  |
| 20L 047   | CD15-5781 | 81                                                            |                                                          | .26  |
| 20L 048   | CD15-5791 | 90 $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch   |                                                          | .26  |
| 20L 049   | CD15-5801 | 1000 $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch |                                                          | .29  |
| 20L 050   | CD15-5811 | 1100 $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch |                                                          | .29  |
| 20L 051   | CD15-5812 | 1200 $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch |                                                          | .32  |
| 20L 052   | CD15-5813 | 1300                                                          |                                                          | .35  |
| 20L 053   | CD15-5815 | 1500 $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ inch |                                                          | .38  |
| 20L 054   | CD15-5820 | 2000                                                          |                                                          | .41  |
| 20L 055   | CD15-5818 | 1800                                                          |                                                          | .44  |
| 20L 056   | CD15-5822 | 2200                                                          | $\frac{1}{2} \times \frac{1}{2} \times \frac{3}{4}$ inch | .47  |
| 20L 057   | CD15-5824 | 2400                                                          |                                                          | .50  |
| 20L 058   | CD15-5824 | 2400                                                          |                                                          | .53  |
| 20L 059   | CD15-5825 | 2500                                                          |                                                          | .56  |
| 20L 060   | CD15-5827 | 2700                                                          | $\frac{1}{2} \times \frac{1}{2} \times \frac{3}{4}$ inch | .62  |
| 20L 061   | CD15-5830 | 3000 $\frac{1}{2} \times \frac{1}{2} \times \frac{3}{4}$ inch |                                                          | .62  |
| 20L 062   | CD15-5833 | 3300 $\frac{1}{2} \times \frac{1}{2} \times \frac{3}{4}$ inch |                                                          | .62  |
| 20L 063   | CD15-5836 | 3600 $\frac{1}{2} \times \frac{1}{2} \times \frac{3}{4}$ inch |                                                          | .65  |
| 20L 064   | CD15-5839 | 3900 $\frac{1}{2} \times \frac{1}{2} \times \frac{3}{4}$ inch |                                                          | .68  |
| 20L 065   | CD15-5843 | 4300 $\frac{1}{2} \times \frac{1}{2} \times \frac{3}{4}$ inch |                                                          | .73  |
| 20L 066   | CD15-5847 | 4700 $\frac{1}{2} \times \frac{1}{2} \times \frac{3}{4}$ inch |                                                          | .73  |
| 20L 067   | CD15-5850 | 5000 $\frac{1}{2} \times \frac{1}{2} \times \frac{3}{4}$ inch |                                                          | .79  |
| 20L 068   | CD15-5851 | 5100                                                          |                                                          | .79  |
| 20L 069   | CD15-5856 | 5600 $\frac{1}{2} \times \frac{1}{2} \times \frac{3}{4}$ inch |                                                          | .85  |
| 20L 070   | CD15-5862 | 6200                                                          |                                                          | .91  |
| 20L 071   | CD15-5868 | 6800                                                          |                                                          | 1.03 |
| 20L 072   | CD15-5875 | 7500                                                          |                                                          | 1.09 |
| 20L 073   | CD15-5882 | 8200 $\frac{1}{2} \times \frac{1}{2} \times \frac{3}{4}$ inch |                                                          | 1.21 |
| 20L 074   | CD15-5890 | 9000                                                          |                                                          | 1.29 |
| 20L 075   | CD15-5851 | 10,000                                                        |                                                          | 1.41 |



22R (CM-15)

Series 22R (CM-15) (Cont'd)

| Stock No. | Type   | MIL Type  | Mfd | EACH |
|-----------|--------|-----------|-----|------|
| 14L 873   | 22R511 | CM15C131J | 130 | .15  |
| 14L 874   | 22R512 | CM15C151J | 150 | .18  |
| 14L 875   | 22R513 | CM15C171J | 170 | .18  |
| 14L 876   | 22R514 | CM15C181J | 180 | .18  |
| 14L 877   | 22R515 | CM15C201J | 200 | .18  |
| 14L 878   | 22R516 | CM15C221J | 220 | .18  |
| 14L 879   | 22R517 | CM15C251J | 250 | .21  |

1R, 1DR Series (CM-30, CM-36), Type 1R,  $\frac{1}{2}$  sq. x  $\frac{1}{4}$  inch, Type 1DR,  $\frac{1}{2}$  sq. x  $\frac{1}{4}$  inch

| Stock No. | Type   | MIL Type  | Mfd    | EACH |
|-----------|--------|-----------|--------|------|
| 14L 382   | 1R5025 | CM30E252J | 2500   | .53  |
| 14L 383   | 1R5031 | CM30E302J | 3000   | .59  |
| 20L 076   | 1R5039 | CM30E392J | 3900   | .71  |
| 14L 397   | 1R505  | CM30E502J | 5000   | .85  |
| 14L 344   | 1R5068 | CM35E682J | 6800   | 1.12 |
| 14L 345   | 1R5075 | CM35E752J | 7500   | 1.19 |
| 14L 346   | 1R5082 | CM35E822J | 8200   | 1.29 |
| 14L 347   | 1R5081 | CM35E103J | 10,000 | 1.56 |

### TYPE DYR PAPER CAPACITORS

High-reliability, metal cased, Dykanol paper capacitors. Non-inductively wound. For RF and AF by-pass, AF coupling circuits. Meet "F" characteristics of JAN-C-5. Tolerance: ±10%. 600 WVDC, except \*1000 WVDC operating range -55°C to +85°C. Av. shpg. wt., 6 oz.

| Stock No. | Type   | Mfd     | Size                                                         | EA.  |
|-----------|--------|---------|--------------------------------------------------------------|------|
| 14L 620   | 6005   | .05     | $1 \frac{1}{2} \times 1 \times \frac{1}{2}$ inch             | 1.68 |
| 14L 621   | 6010   | .1      | $1 \frac{1}{2} \times 1 \times \frac{1}{2}$ inch             | 1.78 |
| 14L 622   | 6025   | .25     | $1 \frac{1}{2} \times 1 \times \frac{1}{2}$ inch             | 1.81 |
| 14L 623   | 6050   | .5      | $1 \frac{1}{2} \times 1 \times \frac{1}{2}$ inch             | 1.93 |
| 14L 624   | 6100   | 1.0     | $2 \frac{1}{2} \times 1 \frac{1}{2} \times \frac{1}{2}$ inch | 2.24 |
| 14L 625   | 6200   | 2.0     | $2 \frac{1}{2} \times 1 \frac{1}{2} \times \frac{1}{2}$ inch | 2.99 |
| 14L 627   | 6011   | 1.1     | $1 \frac{1}{2} \times 1 \times \frac{1}{2}$ inch             | 1.79 |
| 14L 628   | 6022X  | .25     | $1 \frac{1}{2} \times 1 \times \frac{1}{2}$ inch             | 2.45 |
| 14L 630   | 6110   | 1.0-1.0 | $2 \frac{1}{2} \times 1 \frac{1}{2} \times \frac{1}{2}$ inch | 3.36 |
| 14L 615   | 10025* | .25     | $1 \frac{1}{2} \times 1 \times \frac{1}{2}$ inch             | 1.89 |
| 14L 616   | 10050* | .5      | $2 \frac{1}{2} \times 1 \frac{1}{2} \times \frac{1}{2}$ inch | 2.02 |

### TLA TRANSMITTING CAPACITORS

Designed to provide high safety factor and exceptionally long life. 600 WVDC. Inverted mtg. in  $\frac{3}{4}$  inch hole. Have one screw terminal and one solder-type ground lug. Meet MIL-C25A test. Supplied with mounting hardware. Av. wt., 2 lbs.

| Stock No. | Type    | Mfd | Size                                                         | EA.  |
|-----------|---------|-----|--------------------------------------------------------------|------|
| 73L 630   | TLA6020 | 2   | $4 \frac{1}{2} \times 1 \frac{1}{2} \times \frac{1}{2}$ inch | 2.76 |
| 73L 632   | TLA6040 | 4   | $2 \frac{1}{2} \times 1 \frac{1}{2} \times \frac{1}{2}$ inch | 3.78 |

## AEROVOX CAPACITORS

### PTT-PWE POLYCAP PLASTIC-CASED ELECTROLYTICS



Ruggedly constructed miniature electrolytics. Encased in sturdy plastic tubes with special plastic caps. Limited space applications in transistor radio hearing aids, and other miniature electronic equipment. Temperature range -30°C to +65°C. Capacitance tolerance at 25°C: F, ±20%; G, ±25%; H, ±30%; J, ±5%; K, ±10%; L, ±15%; M, ±20%; N, ±25%; O, ±30%; P, ±35%; Q, ±40%; R, ±45%; S, ±50%; T, ±55%; U, ±60%; V, ±65%; W, ±70%; X, ±75%; Y, ±80%; Z, ±85%; AA, ±90%; AB, ±95%; AC, ±100%; AD, ±105%; AE, ±110%; AF, ±115%; AG, ±120%; AH, ±125%; AI, ±130%; AJ, ±135%; AK, ±140%; AL, ±145%; AM, ±150%; AN, ±155%; AO, ±160%; AP, ±165%; AQ, ±170%; AR, ±175%; AS, ±180%; AT, ±185%; AU, ±190%; AV, ±195%; AW, ±200%; AX, ±205%; AY, ±210%; AZ, ±215%; BA, ±220%; BB, ±225%; BC, ±230%; BD, ±235%; BE, ±240%; BF, ±245%; BG, ±250%; BH, ±255%; BI, ±260%; BJ, ±265%; BK, ±270%; BL, ±275%; BM, ±280%; BN, ±285%; BO, ±290%; BP, ±295%; BQ, ±300%; BR, ±305%; BS, ±310%; BT, ±315%; BU, ±320%; BV, ±325%; BW, ±330%; BX, ±335%; BY, ±340%; BZ, ±345%; CA, ±350%; CB, ±355%; CC, ±360%; CD, ±365%; CE, ±370%; CF, ±375%; CG, ±380%; CH, ±385%; CI, ±390%; CJ, ±395%; CK, ±400%; CL, ±405%; CM, ±410%; CN, ±415%; CO, ±420%; CP, ±425%; CQ, ±430%; CR, ±435%; CS, ±440%; CT, ±445%; CU, ±450%; CV, ±455%; CW, ±460%; CX, ±465%; CY, ±470%; CZ, ±475%; DA, ±480%; DB, ±485%; DC, ±490%; DD, ±495%; DE, ±500%; DF, ±505%; DG, ±510%; DH, ±515%; DI, ±520%; DJ, ±525%; DK, ±530%; DL, ±535%; DM, ±540%; DN, ±545%; DO, ±550%; DP, ±555%; DQ, ±560%; DR, ±565%; DS, ±570%; DT, ±575%; DU, ±580%; DV, ±585%; DW, ±590%; DX, ±595%; DY, ±600%; DZ, ±605%; EA, ±610%; EB, ±615%; EC, ±620%; ED, ±625%; EE, ±630%; EF, ±635%; EG, ±640%; EH, ±645%; EI, ±650%; EJ, ±655%; EK, ±660%; EL, ±665%; EM, ±670%; EN, ±675%; EO, ±680%; EP, ±685%; EQ, ±690%; ER, ±695%; ES, ±700%; ET, ±705%; EU, ±710%; EV, ±715%; EW, ±720%; EX, ±725%; EY, ±730%; EZ, ±735%; FA, ±740%; FB, ±745%; FC, ±750%; FD, ±755%; FE, ±760%; FF, ±765%; FG, ±770%; FH, ±775%; FI, ±780%; FJ, ±785%; FK, ±790%; FL, ±795%; FM, ±800%; FN, ±805%; FO, ±810%; FP, ±815%; FQ, ±820%; FR, ±825%; FS, ±830%; FT, ±835%; FU, ±840%; FV, ±845%; FW, ±850%; FX, ±855%; FY, ±860%; FZ, ±865%; GA, ±870%; GB, ±875%; GC, ±880%; GD, ±885%; GE, ±890%; GF, ±895%; GG, ±900%; GH, ±905%; GI, ±910%; GJ, ±915%; GK, ±920%; GL, ±925%; GM, ±930%; GN, ±935%; GO, ±940%; GP, ±945%; GQ, ±950%; GR, ±955%; GS, ±960%; GT, ±965%; GU, ±970%; GV, ±975%; GW, ±980%; GX, ±985%; GY, ±990%; GZ, ±995%; HA, ±1000%; HB, ±1005%; HC, ±1010%; HD, ±1015%; HE, ±1020%; HF, ±1025%; HG, ±1030%; HH, ±1035%; HI, ±1040%; HJ, ±1045%; HK, ±1050%; HL, ±1055%; HM, ±1060%; HN, ±1065%; HO, ±1070%; HP, ±1075%; HQ, ±1080%; HR, ±1085%; HS, ±1090%; HT, ±1095%; HU, ±1100%; HV, ±1105%; HW, ±1110%; HX, ±1115%; HY, ±1120%; HZ, ±1125%; IA, ±1130%; IB, ±1135%; IC, ±1140%; ID, ±1145%; IE, ±1150%; IF, ±1155%; IG, ±1160%; IH, ±1165%; II, ±1170%; IJ, ±1175%; IK, ±1180%; IL, ±1185%; IM, ±1190%; IN, ±1195%; IO, ±1200%; IP, ±1205%; IQ, ±1210%;



## MICA CAPACITORS



Molded in low-loss bakelite cases

excellent selection of extremely stable capacitors, for a wide variety applications. Compared and precision-made, these capacitors are molded in low-loss bakelite, impregnated and color-coded. Feature best values available in these case sizes. Types 1468LS and 1467LS ideal for TV, low-power transmitters and power amplifiers. Type 2L is a heavy-duty mica capacitor, with threaded mounting holes.

### TYPE 1469—SILVERED MICA

500 WVDC,  $\pm 5\%$  tolerance.

$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$  inch. Shpg. wt., 2 oz.

| Stock No. | Mmf | MIL No.    | NET EACH |
|-----------|-----|------------|----------|
| L 300     | 5   | CM-20C-050 | 24c      |
| L 301     | 10  | CM-20C-100 |          |
| L 302     | 12  | CM-20C-120 |          |
| L 303     | 15  | CM-20C-150 |          |
| L 304     | 18  | CM-20C-180 | 24c      |
| L 305     | 20  | CM-20C-200 |          |
| L 306     | 24  | CM-20C-240 |          |
| L 307     | 27  | CM-20C-270 |          |
| L 308     | 30  | CM-20C-300 | 24c      |
| L 309     | 33  | CM-20C-330 |          |
| L 311     | 39  | CM-20C-390 |          |
| L 312     | 43  | CM-20C-430 |          |
| L 313     | 47  | CM-20C-470 | 24c      |
| L 314     | 51  | CM-20C-510 |          |
| L 315     | 56  | CM-20C-560 |          |
| L 317     | 62  | CM-20C-620 |          |
| L 318     | 68  | CM-20C-680 | 24c      |
| L 319     | 75  | CM-20C-750 |          |
| L 320     | 82  | CM-20C-820 |          |
| L 322     | 100 | CM-20C-101 |          |
| L 323     | 100 | CM-20C-151 | 26c      |
| L 324     | 180 | CM-20C-181 |          |
| L 325     | 200 | CM-20C-201 |          |
| L 326     | 220 | CM-20C-221 |          |
| L 327     | 240 | CM-20C-241 | 32c      |
| L 328     | 270 | CM-20C-271 |          |
| L 329     | 300 | CM-20C-301 |          |
| L 330     | 360 | CM-20C-361 |          |

### TYPE 1464—SILVERED MICA

500 WVDC, except  $\pm 300$ ,  $\pm 5\%$  tolerance.

$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$  inch. Shpg. wt., 2 oz.

| Stock No. | Mmf    | MIL No.    | NET EACH |
|-----------|--------|------------|----------|
| L 331     | 470    | CM-30D-471 | 41       |
| L 332     | 510    | CM-30D-511 | 41       |
| L 333     | 560    | CM-30D-561 | 44       |
| L 334     | 620    | CM-30D-621 | 44       |
| L 335     | 680    | CM-30D-681 | 47       |
| L 336     | 750    | CM-30D-751 | 53       |
| L 337     | 820    | CM-30D-821 | 50       |
| L 338     | 910    | CM-30D-911 | 57       |
| L 339     | 1000   | CM-30D-102 | 59       |
| L 340     | 2000   | CM-30D-202 | 79       |
| L 341     | 3000   | CM-30D-302 | 112      |
| L 342     | 3900   | CM-30D-392 | 118      |
| L 343     | 5000   | CM-30D-502 | 266      |
| L 346     | 10000* | CM-35D-103 | 2.06     |

### TYPE 1468LS—MIL-C-5A

500 WVDC,  $\pm 20\%$  tolerance.

$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$  inch. Shpg. wt., 2 oz.

| Stock No. | Mmf | MIL No.    | NET EACH |
|-----------|-----|------------|----------|
| L 2L 468  | 5   | CM-20B-050 | 18c      |
| L 2L 469  | 10  | CM-20B-100 |          |
| L 2L 470  | 20  | CM-20B-200 |          |
| L 2L 471  | 25  | CM-20B-250 |          |
| L 2L 472  | 30  | CM-20B-300 | 18c      |
| L 2L 473  | 50  | CM-20B-500 |          |
| L 2L 474  | 82  | CM-20B-820 |          |
| L 2L 475  | 100 | CM-20B-101 |          |
| L 2L 476  | 150 | CM-20B-151 | 15c      |
| L 2L 477  | 200 | CM-20B-201 |          |
| L 2L 478  | 250 | CM-20B-251 |          |
| L 2L 479  | 270 | CM-20B-271 |          |
| L 2L 480  | 300 | CM-20B-301 | 18c      |
| L 2L 481  | 390 | CM-20B-391 |          |
| L 2L 482  | 430 | CM-20B-431 |          |
| L 2L 483  | 500 | CM-20B-501 |          |

### TYPE 1467LS

500 WVDC, except  $\pm 300$ ,  $\pm 20\%$  tolerance.

$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$  inch. Shpg. wt., 2 oz.

| Stock No. | Mmf    | MIL No.    | NET EACH |
|-----------|--------|------------|----------|
| L 2L 778  | 560    | CM-30B-561 | 18c      |
| L 2L 779  | 680    | CM-30B-681 | 21c      |
| L 2L 781  | 1000   | CM-30B-102 | 21c      |
| L 2L 782  | 1500   | CM-30B-152 | 24c      |
| L 2L 783  | 2000   | CM-30B-202 | 26c      |
| L 2L 784  | 2200   | CM-30B-222 | 26c      |
| L 2L 785  | 2500   | CM-30B-252 | 29c      |
| L 2L 786  | 2700   | CM-30B-272 | 29c      |
| L 2L 787  | 3000   | CM-30B-302 | 35c      |
| L 2L 788  | 3300   | CM-30B-332 | 35c      |
| L 2L 789  | 4700   | CM-30B-472 | 38c      |
| L 2L 790  | 5000   | CM-30B-502 | 41c      |
| L 2L 791  | 5600   | CM-30B-562 | 41c      |
| L 2L 794  | 8200   | CM-30B-822 | 59c      |
| L 2L 795  | 10000* | CM-30B-103 | 71c      |

### TYPE 1652L

2500 WVDC,  $\pm 10\%$  tolerance.

$\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$  inch. Shpg. wt., 4 oz.

| Stock No. | Mmf   | NET EACH |
|-----------|-------|----------|
| L 2L 485  | .0001 | 1.12     |
| L 2L 486  | .0002 | 1.23     |
| L 2L 490  | .0005 | 1.50     |
| L 2L 491  | .001  | 1.50     |
| L 2L 493  | .002  | 2.50     |
| L 2L 496  | .005  | 3.61     |
| L 2L 497  | .01   | 4.29     |

## NEW TYPE V84C-V161 "AEROFILM" MYLAR CAPACITORS

An excellent selection of high-quality tubular capacitors. Have rugged, humidity-proof polypropylene cases. Epoxy end fill will not flow, soften, or melt at any operating temperature.

Have exceptionally high insulation resistance as well as low dielectric absorption and power factor. Extreme stability. Have a relatively small capacitance change with temperature variations over the range of 0-85°C. Tolerance is  $\pm 20\%$ . Av. shpg. wt., 2 oz.



### 200 WVDC

| Stock No. | Mfd.  | Size                                                | EACH |
|-----------|-------|-----------------------------------------------------|------|
| L 2L 105  | .0047 | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 15c  |
| L 2L 106  | .0068 | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ |      |
| L 2L 107  | .01   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ |      |
| L 2L 108  | .015  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ |      |
| L 2L 109  | .022  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 15c  |
| L 2L 115  | .047  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ |      |
| L 2L 116  | .05   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ |      |
| L 2L 117  | .068  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ |      |
| L 2L 118  | .1    | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 21c  |
| L 2L 119  | .15   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 24c  |
| L 2L 129  | .25   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 26c  |
| L 2L 131  | .33   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 26c  |
| L 2L 132  | .58   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 56c  |
| L 2L 134  | 1.0   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 56c  |

### 400 WVDC (Cont'd)

| Stock No. | Mfd. | Size                                                | EACH |
|-----------|------|-----------------------------------------------------|------|
| L 2L 163  | .5   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | .68  |
| L 2L 164  | .68  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | .85  |
| L 2L 177  | 1.0  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 1.03 |

### 600 WVDC

| Stock No. | Mfd.  | Size                                                | EACH |
|-----------|-------|-----------------------------------------------------|------|
| L 2L 178  | .001  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 15c  |
| L 2L 179  | .0015 | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ |      |
| L 2L 180  | .002  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ |      |
| L 2L 181  | .0022 | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ |      |
| L 2L 182  | .003  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 15c  |
| L 2L 183  | .0033 | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ |      |
| L 2L 184  | .004  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ |      |
| L 2L 196  | .0047 | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ |      |
| L 2L 197  | .005  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 15c  |
| L 2L 198  | .0068 | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 18c  |
| L 2L 199  | .01   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 18c  |
| L 2L 230  | .015  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 18c  |
| L 2L 231  | .02   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 18c  |
| L 2L 232  | .022  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 18c  |
| L 2L 249  | .03   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 21c  |
| L 2L 272  | .033  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 21c  |
| L 2L 273  | .047  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 24c  |
| L 2L 274  | .05   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 24c  |
| L 2L 293  | .068  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 26c  |
| L 2L 294  | .1    | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 29c  |
| L 2L 295  | .2    | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 47c  |
| L 2L 296  | .22   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 50c  |
| L 2L 297  | .47   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 82c  |
| L 2L 298  | .5    | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 85c  |

### 400 WVDC

| Stock No. | Mfd.  | Size                                                | EACH |
|-----------|-------|-----------------------------------------------------|------|
| L 2L 136  | .0047 | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 15c  |
| L 2L 137  | .0068 | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ |      |
| L 2L 138  | .01   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ |      |
| L 2L 139  | .015  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ |      |
| L 2L 142  | .02   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 15c  |
| L 2L 143  | .022  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ |      |
| L 2L 144  | .03   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ |      |
| L 2L 145  | .047  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ |      |
| L 2L 146  | .05   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 18c  |
| L 2L 147  | .1    | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 21c  |
| L 2L 148  | .25   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 38c  |
| L 2L 149  | .33   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 50c  |
| L 2L 162  | .47   | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 65c  |

## TYPE ADM DIPPED-MICA CAPACITORS

Plastic-coated and mica-dipped, for long life and high stability over wide ranges of temperature and humidity. Meet applicable MIL-C-5A test standards for molded mica capacitors. Employ radial-leads for insertion and plug-in assemblies—ideal for printed-circuit use and automatic insertion. Construction from  $-55^\circ$  to  $+125^\circ$  C. Tolerance is  $\pm 5\%$ . 500V WVDC, except  $\pm 300$  WVDC. Max. size: ADM-15,  $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$  inch; ADM-19,  $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$  inch. Av. shpg. wt., 2 oz.

| Stock No. | Type    | Mmf  | EACH |
|-----------|---------|------|------|
| L 13 541  | 15-050  | 5    | 17c  |
| L 13 542  | 15-100  | 10   |      |
| L 13 543  | 15-120  | 12   |      |
| L 13 544  | 15-150  | 15   |      |
| L 13 545  | 15-180  | 18   | 17c  |
| L 13 546  | 15-300  | 33   |      |
| L 13 547  | 15-200  | 20   |      |
| L 13 548  | 15-220  | 22   |      |
| L 13 549  | 15-240  | 24   | 17c  |
| L 13 550  | 15-300  | 30   |      |
| L 13 551  | 15-330  | 33   |      |
| L 13 552  | 15-360  | 36   |      |
| L 13 553  | 15-470  | 47   | 17c  |
| L 13 554  | 15-500  | 50   |      |
| L 13 555  | 15-560  | 56   |      |
| L 13 556  | 15-620  | 62   |      |
| L 13 557  | 15-680  | 68   | 17c  |
| L 13 558  | 15-820  | 82   |      |
| L 13 559  | 15-101  | 101  |      |
| L 13 560  | 15-111  | 110  |      |
| L 13 561  | 15-131  | 130  | 20c  |
| L 13 562  | 15-151  | 150  |      |
| L 13 563  | 15-161  | 160  |      |
| L 13 564  | 15-201  | 200  |      |
| L 13 565  | 15-221  | 220  | 25c  |
| L 13 566  | 15-251  | 250  |      |
| L 13 567  | 15-271  | 270  |      |
| L 13 568  | 15-301  | 300  |      |
| L 13 569  | 15-361  | 360  | 32c  |
| L 13 570  | 15-391  | 390  |      |
| L 13 571  | 15-471  | 470  |      |
| L 13 572  | 15-501* | 500  |      |
| L 13 573  | 15-621  | 620  | 35c  |
| L 13 574  | 15-681  | 680  |      |
| L 13 575  | 15-821  | 820  |      |
| L 13 576  | 15-102  | 1000 |      |
| L 13 577  | 15-122  | 1200 | 44c  |
| L 13 578  | 15-152  | 1500 |      |
| L 13 579  | 15-202  | 2000 |      |
| L 13 580  | 15-302* | 3000 |      |

## TYPE P83Z MICROMINIATURE METALLIZED-PAPER TUBULARS

AEROFILM

\* coupling and bypass use in radio, TV and electronic equipment. Hyvol-K impregnated, moisture-resistant cases. Improved metal foil serves as both dielectric and electrodes. Tolerance,  $\pm 25\%$ . Av. shpg. wt., 2 oz.

| ock No. | Mfd.  | WDVC | Size                                                | EACH |
|---------|-------|------|-----------------------------------------------------|------|
| L 492   | .004  | 200  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 21c  |
| L 495   | .005  | 200  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 21c  |
| L 496   | .01   | 200  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 21c  |
| L 493   | .02   | 200  | $\frac{1}{4} \times \frac{1}{2} \times \frac{1}{2}$ | 26c  |
| L 494   | .04   | 200  | $\frac{1}{4} \times \frac{1}{2} \times \frac{1}{2}$ | 26c  |
| L 497   | .003  | 400  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 21c  |
| L 495   | .008  | 400  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 26c  |
| L 499   | .01   | 400  | $\frac{1}{4} \times \frac{1}{2} \times \frac{1}{2}$ | 26c  |
| L 490   | .0005 | 600  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 21c  |
| L 496   | .0008 | 600  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 21c  |
| L 491   | .001  | 600  | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ | 21c  |
| L 492   | .002  | 600  |                                                     |      |
| L 497   | .0022 | 600  |                                                     |      |
| L 494   | .0047 | 600  |                                                     |      |
| L 495   | .005  | 600  | $\frac{1}{4} \times \frac{1}{2} \times \frac{1}{2}$ | 26c  |

# Aerovox & Mallory Capacitors

## AEROVOX PRS "DANDEE" MINIATURE ELECTROLYTICS



Extremely compact high-quality tubular electrolytics in metal cans with cardboard insulating sleeves. Ideally suited to a wide variety of applications where space is at a premium, and dependable service is required. Negative leads are connected to aluminum cans. Dual and triple-section types have common negative leads. Single-section capacitors have bare, tinned copper leads, 1/2" long. Dual and triple-section types have flexible stranded-copper leads, 3" long, with insulating sleeves. All are conservatively rated for temperatures to 85°C. Sizes listed are diameters over cardboard insulating sleeve. Multiple units are supplied with mounting strap. Av. shpg. wt., 4 oz.

### A—SINGLE SECTION

| Stock No. | Mfd | Volts | Size           | NET  |
|-----------|-----|-------|----------------|------|
| 13 L 639  | 8   | 700   | 1 1/2 x 3 1/2" | 1.71 |
| 13 L 640  | 10  | 700   | 1 1/2 x 3 1/2" | 1.79 |
| 13 L 642  | 16  | 700   | 1 1/2 x 3 1/2" | 2.06 |
| 13 L 632  | 8   | 600   | 1 1/2 x 3 1/2" | 1.68 |
| 13 L 635  | 16  | 600   | 1 1/2 x 3 1/2" | 2.03 |
| 12 L 617  | 1   | 450   | 1 1/2 x 1 1/2" | .65  |
| 12 L 618  | 2   | 450   | 1 1/2 x 1 1/2" | .68  |
| 13 L 626  | 8   | 450   | 1 1/2 x 1 1/2" | .68  |
| 13 L 627  | 8   | 450   | 1 1/2 x 1 1/2" | .68  |
| 13 L 394  | 10  | 450   | 1 1/2 x 1 1/2" | .76  |
| 13 L 387  | 12  | 450   | 1 1/2 x 1 1/2" | .79  |
| 13 L 388  | 16  | 450   | 1 1/2 x 1 1/2" | .82  |
| 13 L 389  | 20  | 450   | 1 1/2 x 1 1/2" | .91  |
| 13 L 390  | 30  | 450   | 1 1/2 x 1 1/2" | 1.00 |
| 13 L 396  | 40  | 450   | 1 1/2 x 2 1/2" | 1.06 |
| 12 L 620  | 60  | 450   | 1 1/2 x 3 1/2" | 1.38 |
| 12 L 621  | 80  | 450   | 1 1/2 x 3 1/2" | 1.65 |
| 12 L 622  | 100 | 450   | 1 1/2 x 3 1/2" | 1.88 |
| 12 L 612  | 10  | 350   | 1 1/2 x 1 1/2" | .73  |
| 13 L 403  | 10  | 350   | 1 1/2 x 1 1/2" | .82  |
| 13 L 404  | 24  | 350   | 1 1/2 x 1 1/2" | .91  |
| 12 L 613  | 30  | 350   | 1 1/2 x 1 1/2" | .97  |
| 12 L 614  | 40  | 350   | 1 1/2 x 1 1/2" | 1.03 |
| 13 L 410  | 4   | 250   | 1 1/2 x 1 1/2" | .59  |
| 13 L 411  | 8   | 250   | 1 1/2 x 1 1/2" | .68  |
| 13 L 412  | 12  | 250   | 1 1/2 x 1 1/2" | .73  |
| 13 L 413  | 16  | 250   | 1 1/2 x 1 1/2" | .79  |
| 13 L 414  | 20  | 250   | 1 1/2 x 1 1/2" | .85  |
| 12 L 608  | 30  | 250   | 1 1/2 x 1 1/2" | .91  |
| 12 L 609  | 40  | 250   | 1 1/2 x 1 1/2" | .95  |
| 12 L 610  | 50  | 250   | 1 1/2 x 1 1/2" | 1.00 |
| 12 L 611  | 60  | 250   | 1 1/2 x 1 1/2" | 1.06 |
| 13 L 431  | 4   | 150   | 1 1/2 x 1 1/2" | .59  |
| 13 L 432  | 8   | 150   | 1 1/2 x 1 1/2" | .62  |
| 13 L 433  | 16  | 150   | 1 1/2 x 1 1/2" | .68  |
| 13 L 434  | 20  | 150   | 1 1/2 x 1 1/2" | .71  |
| 13 L 435  | 30  | 150   | 1 1/2 x 1 1/2" | .79  |
| 13 L 436  | 40  | 150   | 1 1/2 x 1 1/2" | .82  |
| 13 L 441  | 50  | 150   | 1 1/2 x 1 1/2" | .88  |
| 12 L 607  | 60  | 150   | 1 1/2 x 1 1/2" | .94  |
| 13 L 426  | 100 | 150   | 1 1/2 x 1 1/2" | 1.03 |
| 13 L 427  | 150 | 150   | 1 1/2 x 1 1/2" | 1.12 |
| 13 L 428  | 150 | 150   | 1 1/2 x 1 1/2" | 1.12 |
| 13 L 450  | 10  | 50    | 1 1/2 x 1 1/2" | .59  |
| 13 L 856  | 20  | 50    | 1 1/2 x 1 1/2" | .59  |
| 13 L 857  | 25  | 50    | 1 1/2 x 1 1/2" | .62  |
| 13 L 858  | 50  | 50    | 1 1/2 x 1 1/2" | .82  |
| 13 L 453  | 100 | 50    | 1 1/2 x 1 1/2" | .82  |
| 12 L 606  | 250 | 50    | 1 1/2 x 1 1/2" | 1.03 |
| 13 L 460  | 10  | 25    | 1 1/2 x 1 1/2" | .59  |
| 13 L 859  | 16  | 25    | 1 1/2 x 1 1/2" | .59  |

### A—SINGLE SECTION (Cont'd)

| Stock No. | Mfd  | Volts | Size           | NET  |
|-----------|------|-------|----------------|------|
| 13 L 461  | 25   | 25    | 1 1/2 x 1 1/2" | .59  |
| 13 L 462  | 50   | 25    | 1 1/2 x 1 1/2" | .65  |
| 13 L 463  | 100  | 25    | 1 1/2 x 1 1/2" | .79  |
| 12 L 604  | 250  | 25    | 1 1/2 x 2 1/2" | 1.00 |
| 13 L 857  | 500  | 25    | 1 1/2 x 2 1/2" | 1.35 |
| 13 L 861  | 100  | 12    | 1 1/2 x 1 1/2" | .71  |
| 13 L 860  | 250  | 12    | 1 1/2 x 1 1/2" | .85  |
| 13 L 859  | 500  | 12    | 1 1/2 x 1 1/2" | .97  |
| 12 L 600  | 100  | 6     | 1 1/2 x 1 1/2" | .71  |
| 13 L 864  | 500  | 6     | 1 1/2 x 1 1/2" | .91  |
| 13 L 863  | 1000 | 6     | 1 1/2 x 2 1/2" | 1.12 |

### B—DOUBLE SECTION

| Stock No. | Mfd   | Volts | Size           | NET  |
|-----------|-------|-------|----------------|------|
| 13 L 391  | 8-8   | 450   | 1 1/2 x 2 1/2" | 1.00 |
| 13 L 392  | 16-16 | 450   | 1 1/2 x 2 1/2" | 1.18 |
| 13 L 397  | 10-10 | 450   | 1 1/2 x 2 1/2" | 1.09 |
| 12 L 638  | 16-16 | 450   | 1 1/2 x 2 1/2" | 1.32 |
| 12 L 639  | 20-20 | 450   | 1 1/2 x 3 1/2" | 1.47 |
| 12 L 640  | 30-30 | 450   | 1 1/2 x 3 1/2" | 1.76 |
| 12 L 641  | 40-40 | 450   | 1 1/2 x 3 1/2" | 1.73 |
| 13 L 851  | 40-40 | 450   | 1 1/2 x 3 1/2" | 1.73 |
| 12 L 642  | 50-50 | 450   | 1 1/2 x 4"     | 2.00 |
| 12 L 635  | 10-10 | 250   | 1 1/2 x 1 1/2" | .97  |
| 12 L 636  | 16-16 | 250   | 1 1/2 x 2 1/2" | 1.00 |
| 12 L 852  | 30-30 | 250   | 1 1/2 x 2 1/2" | 1.09 |
| 13 L 853  | 30-30 | 250   | 1 1/2 x 2 1/2" | 1.32 |
| 13 L 859  | 20-20 | 150   | 1 1/2 x 1 1/2" | .97  |
| 12 L 625  | 30-20 | 150   | 1 1/2 x 2 1/2" | 1.00 |
| 12 L 626  | 40-20 | 150   | 1 1/2 x 3 1/2" | 1.03 |
| 12 L 627  | 30-30 | 150   | 1 1/2 x 1 1/2" | 1.06 |
| 12 L 628  | 40-30 | 150   | 1 1/2 x 2 1/2" | 1.06 |
| 13 L 854  | 40-40 | 150   | 1 1/2 x 2 1/2" | 1.06 |
| 12 L 629  | 80-40 | 150   | 1 1/2 x 2 1/2" | 1.29 |
| 13 L 853  | 50-30 | 150   | 1 1/2 x 2 1/2" | 1.15 |
| 13 L 854  | 50-30 | 150   | 1 1/2 x 2 1/2" | 1.23 |

### C—TRIPLE SECTION

| Stock No. | Mfd      | Volts | Size           | NET  |
|-----------|----------|-------|----------------|------|
| 12 L 650  | 10-10-10 | 450   | 1 1/2 x 3 1/2" | 1.64 |
| 13 L 855  | 20-20-20 | 150   | 1 1/2 x 1 1/2" | .48  |
| 12 L 643  | 30-30-20 | 150   | 1 1/2 x 1 1/2" | .55  |
| 12 L 644  | 40-20-20 | 150   | 1 1/2 x 2 1/2" | .55  |
| 12 L 645  | 40-30-20 | 150   | 1 1/2 x 2 1/2" | .60  |
| 12 L 649  | 40-40-20 | 150   | 1 1/2 x 2 1/2" | .65  |
| 13 L 872  | 40-40-40 | 150   | 1 1/2 x 2 1/2" | 1.64 |
| 12 L 647  | 50-30-20 | 150   | 1 1/2 x 2 1/2" | .60  |
| 12 L 648  | 80-40-20 | 150   | 1 1/2 x 2 1/2" | 1.70 |
| 12 L 649  | 80-20-20 | 150   | 1 1/2 x 2 1/2" | 1.50 |
| 12 L 656  | 40-40-20 | 250   | 1 1/2 x 2 1/2" | 1.63 |
| 12 L 662  | 50-30-20 | 150   | 1 1/2 x 1 1/2" | .68  |
| 12 L 665  | 50-30-20 | 150   | 1 1/2 x 2 1/2" | 1.25 |

## MALLORY PVC "MYLARS"



New "Mylar" capacitors feature encapsulation in a flexible, moisture proof polyvinyl chloride casing. Ideal for minimum space and printed circuit use. Have excellent low drift characteristics highly recommended for circuits requiring high stability and resistance. Casing is resistant to soldering heat. Temperature range: 40°C to +105°C. Capacity tolerance: ±10%. Av. shpg. wt., 2 oz.

| Stock No. | Type | Mfd   | VOC | Size                   | EACH |
|-----------|------|-------|-----|------------------------|------|
| 28 L 832  | 1122 | .022  | 100 | 3/8 x 1/2 x 3/2"       |      |
| 28 L 833  | 1133 | .033  | 100 | 3/8 x 1/2 x 3/2"       |      |
| 28 L 834  | 1144 | .044  | 100 | 3/8 x 1/2 x 3/2"       |      |
| 28 L 835  | 1147 | .047  | 100 | 3/8 x 1/2 x 3/2"       |      |
| 28 L 836  | 101  | .01   | 100 | 1/4 x 1/2 x 3/2"       |      |
| 28 L 837  | 1025 | .25   | 100 | 1 1/2 x 3/4 x 1 1/2"   | .30  |
| 28 L 838  | 105  | .5    | 100 | 1 1/2 x 3/4 x 1 1/2"   | .39  |
| 28 L 839  | 110  | 1     | 100 | 1 1/2 x 3/4 x 1 1/2"   | .57  |
| 28 L 840  | 1115 | 1.15  | 100 | 1 1/2 x 3/4 x 1 1/2"   | .77  |
| 28 L 841  | 12   | 2.0   | 100 | 4 5/8 x 1 1/2 x 1 1/2" | .96  |
| 28 L 842  | 211  | .01   | 200 | 3/8 x 1/2 x 3/2"       |      |
| 28 L 843  | 2115 | .015  | 200 | 3/8 x 1/2 x 3/2"       |      |
| 28 L 844  | 212  | .02   | 200 | 3/8 x 1/2 x 3/2"       |      |
| 28 L 845  | 2133 | .033  | 200 | 3/8 x 1/2 x 3/2"       |      |
| 28 L 846  | 215  | .05   | 200 | 3/8 x 1/2 x 3/2"       |      |
| 28 L 847  | 201  | .10   | 200 | 3/8 x 1/2 x 3/2"       | .27  |
| 28 L 848  | 2015 | .15   | 200 | 3/8 x 1/2 x 3/2"       | .30  |
| 28 L 849  | 2025 | .25   | 200 | 3/8 x 1/2 x 3/2"       | .36  |
| 28 L 850  | 2033 | .33   | 200 | 3/8 x 1/2 x 3/2"       | .39  |
| 28 L 851  | 205  | .5    | 200 | 3/8 x 1/2 x 3/2"       | .45  |
| 28 L 852  | 21   | 1.0   | 200 | 3/8 x 1/2 x 3/2"       | .78  |
| 28 L 853  | 22   | 2.0   | 200 | 3/8 x 1/2 x 3/2"       | 1.26 |
| 28 L 854  | 4222 | .0022 | 400 | 1 1/2 x 2 1/2 x 2 1/2" | .21  |
| 28 L 855  | 4247 | .0047 | 400 | 1 1/2 x 2 1/2 x 2 1/2" | .21  |
| 28 L 856  | 411  | .01   | 400 | 1 1/2 x 2 1/2 x 2 1/2" | .21  |
| 28 L 857  | 412  | .02   | 400 | 1 1/2 x 2 1/2 x 2 1/2" | .21  |
| 28 L 858  | 415  | .05   | 400 | 1 1/2 x 2 1/2 x 2 1/2" | .30  |
| 28 L 859  | 401  | .10   | 400 | 1 1/2 x 2 1/2 x 2 1/2" | .35  |
| 28 L 860  | 4025 | .25   | 400 | 1 1/2 x 2 1/2 x 2 1/2" | .40  |
| 28 L 861  | 405  | .5    | 400 | 1 1/2 x 2 1/2 x 2 1/2" | .69  |
| 28 L 862  | 621  | .001  | 600 | 1 1/2 x 2 1/2 x 2 1/2" |      |
| 28 L 863  | 622  | .002  | 600 | 1 1/2 x 2 1/2 x 2 1/2" |      |
| 28 L 864  | 6222 | .0022 | 600 | 1 1/2 x 2 1/2 x 2 1/2" | .21  |
| 28 L 865  | 623  | .003  | 600 | 1 1/2 x 2 1/2 x 2 1/2" |      |
| 28 L 866  | 6233 | .0033 | 600 | 1 1/2 x 2 1/2 x 2 1/2" |      |
| 28 L 867  | 624  | .004  | 600 | 1 1/2 x 2 1/2 x 2 1/2" |      |
| 28 L 868  | 6247 | .0047 | 600 | 1 1/2 x 2 1/2 x 2 1/2" |      |
| 28 L 869  | 625  | .005  | 600 | 1 1/2 x 2 1/2 x 2 1/2" |      |
| 28 L 870  | 626  | .006  | 600 | 1 1/2 x 2 1/2 x 2 1/2" |      |
| 28 L 871  | 6275 | .0075 | 600 | 1 1/2 x 2 1/2 x 2 1/2" |      |
| 28 L 872  | 611  | .01   | 600 | 1 1/2 x 2 1/2 x 2 1/2" | .21  |
| 28 L 873  | 6115 | .015  | 600 | 1 1/2 x 2 1/2 x 2 1/2" | .25  |
| 28 L 874  | 612  | .02   | 600 | 1 1/2 x 2 1/2 x 2 1/2" | .25  |
| 28 L 875  | 6122 | .022  | 600 | 1 1/2 x 2 1/2 x 2 1/2" | .25  |
| 28 L 876  | 613  | .03   | 600 | 1 1/2 x 2 1/2 x 2 1/2" | .25  |
| 28 L 877  | 6133 | .033  | 600 | 1 1/2 x 2 1/2 x 2 1/2" | .25  |
| 28 L 878  | 614  | .04   | 600 | 1 1/2 x 2 1/2 x 2 1/2" | .27  |
| 28 L 879  | 6147 | .0047 | 600 | 1 1/2 x 2 1/2 x 2 1/2" | .27  |
| 28 L 880  | 615  | .05   | 600 | 1 1/2 x 2 1/2 x 2 1/2" | .27  |
| 28 L 881  | 6168 | .0068 | 600 | 1 1/2 x 2 1/2 x 2 1/2" | .27  |
| 28 L 882  | 601  | .01   | 600 | 2 1/2 x 2 1/2 x 1 1/2" | .36  |
| 28 L 883  | 602  | .02   | 600 | 2 1/2 x 2 1/2 x 1 1/2" | .54  |
| 28 L 884  | 6022 | .0022 | 600 | 3 1/2 x 2 1/2 x 1 1/2" | .57  |
| 28 L 885  | 6025 | .0025 | 600 | 3 1/2 x 2 1/2 x 1 1/2" | .57  |
| 28 L 886  | 6033 | .0033 | 600 | 3 1/2 x 2 1/2 x 1 1/2" | .59  |
| 28 L 887  | 6047 | .0047 | 600 | 2 1/2 x 2 1/2 x 1 1/2" | .81  |

## MALLORY GEM MOLDED TUBULAR PAPER CAPACITORS



Manufactured to extremely high standards. Rugged mineral-filled bakelite cases and resin sealant assure dependable service. Have high resistance to moisture and mechanical shock. Double times in copper-welded types; 1/2" dia. No. 18. For up to 85°C. Tolerance: 20% except ±10%. Av. shpg. wt., 5 oz.

### 600 VOLTS DC WORKING

| Stock No. | Type | Mfd   | Size         | EACH |
|-----------|------|-------|--------------|------|
| 18 L 546  | 621  | .001  | 5/8 x 1 1/2" |      |
| 18 L 547  | 6215 | .0015 | 5/8 x 1 1/2" |      |
| 18 L 548  | 622  | .002  | 5/8 x 1 1/2" |      |
| 18 L 549  | 6222 | .0022 | 5/8 x 1 1/2" |      |
| 18 L 550  | 6225 | .0025 | 5/8 x 1 1/2" |      |
| 18 L 551  | 623  | .003  | 5/8 x 1 1/2" |      |
| 18 L 552  | 6233 | .0033 | 5/8 x 1 1/2" |      |
| 18 L 553  | 624  | .004  | 5/8 x 1 1/2" |      |
| 18 L 554  | 6247 | .0047 | 5/8 x 1 1/2" |      |
| 18 L 555  | 625  | .005  | 5/8 x 1 1/2" |      |
| 18 L 556  | 626  | .006  | 5/8 x 1 1/2" |      |
| 18 L 557  | 6268 | .0068 | 5/8 x 1 1/2" |      |
| 18 L 558  | 628  | .008  | 5/8 x 1 1/2" |      |
| 18 L 560  | 6282 | .0082 | 5/8 x 1 1/2" |      |
| 18 L 561  | 611  | .01   | 5/8 x 1 1/2" |      |
| 18 L 562  | 6112 | .012  | 5/8 x 1 1/2" |      |

### 600 VOLTS DC WORKING (Cont'd)

| Stock No. | Type | Mfd   | Size         | EACH |
|-----------|------|-------|--------------|------|
| 18 L 563  | 6115 | .015  | 5/8 x 1 1/2" |      |
| 18 L 564  | 612  | .02   | 5/8 x 1 1/2" |      |
| 18 L 565  | 6122 | .022  | 5/8 x 1 1/2" |      |
| 18 L 566  | 6125 | .025  | 5/8 x 1 1/2" |      |
| 18 L 567  | 613  | .03   | 5/8 x 1 1/2" |      |
| 18 L 568  | 6133 | .033  | 5/8 x 1 1/2" |      |
| 18 L 569  | 614  | .04   | 5/8 x 1 1/2" |      |
| 18 L 570  | 6147 | .0047 | 5/8 x 1 1/2" |      |



## HIGH-CAPACITY ELECTROLYTICS

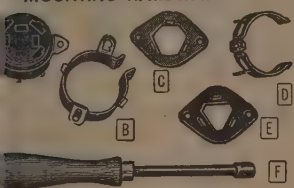
ty etched-plate dry electrolytic in moisture-resistant cases. polarized types—ideal for capacity, low-voltage use, as on electric fences and film circuits. \*Indicates NP, non-polarized types, for intermittent use only—fine replacements for ng and control gear. †For photoflash. aluminum case and solder lugs—others plastic cases and screw terminals. Type 50 has two 3000-mfd sections. Temp. -40°C to +85°C. With Type VR verti- ing brackets. Av. shpg. wt., 10 oz.



HC

| Stock No.   | Type | Mfd | WVDC        | Size | NET |
|-------------|------|-----|-------------|------|-----|
| 810 4505*   | 50   | 450 | 1 1/2x3 3/4 | 6.30 |     |
| 811 4510*   | 100  | 450 | 2 1/2x4 3/4 | 7.70 |     |
| 820 4503†   | 300  | 450 | 2 1/2x4 3/4 | 8.47 |     |
| 428 3003A*  | 15   | 300 | 1 1/2x2 1/4 | 2.87 |     |
| 942 3008*   | 50   | 300 | 1 1/2x3 3/4 | 5.25 |     |
| 943 3014A*  | 100  | 300 | 1 1/2x3 3/4 | 6.13 |     |
| 588 3025*   | 200  | 300 | 2 1/2x4 3/4 | 7.00 |     |
| 592 24005A  | 500  | 200 | 1 1/2x3 3/4 | 5.53 |     |
| 291 15010   | 1000 | 150 | 2 1/2x4 3/4 | 6.44 |     |
| 939 15010A  | 1000 | 150 | 1 1/2x3 3/4 | 6.44 |     |
| 940 1225A*  | 200  | 125 | 1 1/2x3 3/4 | 4.04 |     |
| 941 1235A*  | 300  | 125 | 1 1/2x3 3/4 | 4.87 |     |
| 948 1245A*  | 500  | 125 | 1 1/2x3 3/4 | 5.30 |     |
| 985 5005*   | 500  | 50  | 1 1/2x3 3/4 | 3.33 |     |
| 938 5005A   | 500  | 50  | 1 1/2x2 1/4 | 3.33 |     |
| 586 5010A   | 1000 | 50  | 1 1/2x3 3/4 | 4.25 |     |
| 590 5020A   | 2000 | 50  | 1 1/2x3 3/4 | 5.06 |     |
| 594 5040A   | 4000 | 25  | 1 1/2x3 3/4 | 5.53 |     |
| 937 4040A   | 4000 | 40  | 2 1/2x4 3/4 | 6.98 |     |
| 582 2510A   | 1000 | 25  | 1 1/2x2 1/4 | 3.19 |     |
| 583 2520A   | 2000 | 25  | 1 1/2x3 3/4 | 3.47 |     |
| 584 2540A   | 4000 | 25  | 1 1/2x4 3/4 | 4.25 |     |
| 930 2060    | 6000 | 20  | 2 1/2x4 3/4 | 6.11 |     |
| 936 2060A   | 6000 | 20  | 1 1/2x4 3/4 | 6.11 |     |
| 935 2050-50 | 5000 | 20  | 2 1/2x4 3/4 | 8.00 |     |
| 980 1520A   | 2000 | 15  | 1 1/2x2 1/4 | 3.47 |     |
| 981 1540A   | 4000 | 15  | 1 1/2x3 3/4 | 4.25 |     |
| 989 1560A   | 6000 | 15  | 1 1/2x3 3/4 | 5.62 |     |
| 934 1020A   | 2000 | 10  | 1 1/2x2 1/4 | 3.36 |     |
| 577 1040A   | 4000 | 10  | 1 1/2x3 3/4 | 4.60 |     |
| 579 1060A†  | 1000 | 10  | 1 1/2x4 3/4 | 5.20 |     |
| 429 1010    | 1000 | 10  | 2 1/2x4 3/4 | 7.81 |     |

## MOUNTING HARDWARE



mounting Mallory Type FP or WP capaci- use MP, BP, PS and MW-100 units listed w/. For Type TC, FP, WP and other tubu- capacitors use VR brackets for vertical ntng, or TH spring clips where horizontal ntng is required. \*Metal. †Phenolic. Av. g. wt., 3 oz.

| Stock No. | Type   | Fig. | Size            | NET  |
|-----------|--------|------|-----------------|------|
| L 531     | PS-4   | A    | 1"              | .42  |
| L 532     | PS-4   | A    | 1 1/2"          | .54  |
| L 402     | VR-1   | B    | 25 to 1 1/2"    | .09  |
| L 413     | VR-3   | B    | 1 1/2 to 1 1/2" | .09  |
| L 414     | VR-4   | B    | 1 1/2 to 1 1/2" | .12  |
| L 415     | VR-6   | B    | 1 1/2 to 1 1/2" | .15  |
| L 416     | VR-8   | B    | 2 to 2 1/2"     | .18  |
| L 417     | TH-25  | D    | 1 1/2 to 1 1/2" | .06  |
| L 417     | MW-100 | F    | Mtg. Wrench     | 1.05 |

| Stock No. | Mfr's Type | Fig. | Size          | Per Pkg. of 3 |
|-----------|------------|------|---------------|---------------|
| L 414     | MP-2       | C*   | 1 1/2"        |               |
| L 415     | MP-4       | C*   | 1 1/2"        |               |
| L 416     | MP-6       | C*   | 1 1/2"        | 9c            |
| L 417     | BP-2       | E†   | 1 1/2"        |               |
| L 418     | BP-4       | E†   | 1 1/2"        |               |
| L 419     | BP-6       | E†   | 1 1/2"        |               |
| L 420     | TH-13      | D    | 3/4 to 1 1/2" |               |
| L 421     | TH-15      | D    | 3/4 to 1 1/2" |               |
| L 422     | TH-17      | D    | 3/4 to 1 1/2" | 9c            |
| L 423     | TH-19      | D    | 3/4 to 1 1/2" |               |
| L 424     | TH-21      | D    | 3/4 to 1 1/2" |               |

## INSULATING SLEEVES

er sleeves for FP type capacitors. Wt., 2 oz.

| o.  | Type | Size     | EA. | No. | Type  | Size              | EA. |
|-----|------|----------|-----|-----|-------|-------------------|-----|
| 510 | CE-1 | 1 1/2x3" | 6c  | 17  | L 515 | CE-7 1 1/2x2"     | 6c  |
| 511 | CE-2 | 1 1/2x3" | 6c  | 17  | L 516 | CE-8 1 1/2x2"     | 6c  |
| 512 | CE-4 | 1 1/2x3" | 6c  | 17  | L 517 | CE-9 1 1/2x2 1/2" | 6c  |
| 513 | CE-5 | 1 1/2x3" | 9c  | 17  | L 518 | CE-10 1 1/2x4"    | 9c  |
| 514 | CE-6 | 1 1/2x3" | 9c  |     |       |                   |     |

## METAL-CASED ELECTROLYTICS

Metal, tubular dry electrolytic capacitors. A wide selection of highly dependable capacitors designed for use in radios, television receivers, hi-fi equipment, and many other general-purpose applications. Units rated up to 150 WVDC have a tolerance of -10% to +100%.

Capacitors rated above 150 WVDC have a tolerance of -10% to +50%. All units have external insulating sleeves; ideal for use in crowded, compact chassis. Type TC has 3 thin-coat lead wires. Types TCD and TCT have 8 insulated wire leads. \*Indicates non-



TC



TCD



TCT

## TYPE TC SINGLE CAPACITORS

| Stock No. | Type | Mfd | WVDC | Size        | NET  |
|-----------|------|-----|------|-------------|------|
| 17 L 450  | 92   | 10  | 600  | 1 1/2x2 1/4 | 1.77 |
| 17 L 245  | 81   | 10  | 500  | 1 1/2x1 3/4 | .81  |
| 17 L 924  | 82   | 10  | 500  | 1 1/2x2 1/4 | 1.62 |
| 17 L 246  | 83   | 20  | 500  | 1 1/2x1 3/4 | .96  |
| 17 L 247  | 84   | 30  | 500  | 1 1/2x2 1/4 | 1.05 |
| 17 L 928  | 695  | 2   | 450  | 1 1/2x1 1/4 | .66  |
| 17 L 455  | 70   | 2   | 450  | 1 1/2x1 1/4 | .72  |
| 17 L 456  | 71   | 3   | 450  | 1 1/2x1 1/4 | .75  |
| 17 L 620  | 72   | 10  | 450  | 1 1/2x1 3/4 | .78  |
| 17 L 638  | 73   | 12  | 450  | 1 1/2x1 3/4 | .81  |
| 17 L 622  | 74   | 16  | 450  | 1 1/2x1 3/4 | .84  |
| 17 L 453  | 75   | 30  | 450  | 1 1/2x1 3/4 | 1.02 |
| 17 L 623  | 76   | 30  | 450  | 1 1/2x1 3/4 | 1.02 |
| 17 L 508  | 78   | 40  | 450  | 1 1/2x2 1/4 | 1.08 |
| 17 L 925  | 79   | 50  | 450  | 1 1/2x2 1/4 | 1.26 |
| 17 L 800  | 795  | 60  | 450  | 1 1/2x2 1/4 | 1.38 |
| 17 L 204  | 80   | 80  | 450  | 1 1/2x4     | 1.69 |
| 17 L 926  | 805  | 100 | 450  | 1 1/2x4     | 1.69 |
| 17 L 925  | 595  | 2   | 350  | 1 1/2x1 1/4 | 1.26 |
| 17 L 634  | 60   | 5   | 350  | 1 1/2x1 3/4 | .63  |
| 17 L 635  | 61   | 8   | 350  | 1 1/2x1 3/4 | .72  |
| 17 L 455  | 62   | 10  | 350  | 1 1/2x1 3/4 | .75  |
| 17 L 929  | 64   | 16  | 350  | 1 1/2x1 3/4 | .87  |
| 17 L 457  | 65   | 30  | 350  | 1 1/2x1 3/4 | .99  |
| 17 L 244  | 68   | 60  | 350  | 1 1/2x2 1/4 | 1.17 |
| 17 L 801  | 69   | 100 | 350  | 1 1/2x2 1/4 | 1.86 |
| 17 L 626  | 50X  | 5   | 250  | 1 1/2x1 1/4 | .63  |
| 17 L 627  | 51   | 8   | 250  | 1 1/2x1 1/4 | .69  |
| 17 L 628  | 52   | 12  | 250  | 1 1/2x1 1/4 | .72  |
| 17 L 629  | 53   | 12  | 250  | 1 1/2x1 1/4 | .75  |
| 17 L 629  | 54   | 16  | 250  | 1 1/2x1 1/4 | .78  |
| 17 L 505  | 55   | 20  | 250  | 1 1/2x1 1/4 | .81  |
| 17 L 633  | 58   | 40  | 250  | 1 1/2x1 3/4 | .93  |
| 17 L 243  | 59   | 50  | 250  | 1 1/2x1 3/4 | 1.07 |
| 17 L 242  | 1265 | 100 | 250  | 1 1/2x1 3/4 | 1.49 |
| 17 L 458  | 40   | 5   | 150  | 1 1/2x1 1/4 | .60  |
| 17 L 624  | 41   | 8   | 150  | 1 1/2x1 1/4 | .63  |
| 17 L 459  | 42   | 10  | 150  | 1 1/2x1 1/4 | .63  |
| 17 L 608  | 44   | 16  | 150  | 1 1/2x1 1/4 | .69  |
| 17 L 502  | 45   | 20  | 150  | 1 1/2x1 1/4 | .72  |
| 17 L 459  | 47   | 30  | 150  | 1 1/2x1 1/4 | .78  |
| 17 L 611  | 48   | 40  | 150  | 1 1/2x1 3/4 | .81  |
| 17 L 504  | 49   | 50  | 150  | 1 1/2x1 3/4 | .84  |
| 17 L 640  | 492  | 80  | 150  | 1 1/2x2 1/4 | .96  |
| 17 L 802  | 493  | 100 | 150  | 1 1/2x2 1/4 | 1.06 |
| 17 L 242  | 495  | 150 | 150  | 1 1/2x2 1/4 | 1.14 |

polarized type. All capacitors listed are equipped with fixed mounting straps except TC types smaller than 1 1/2" in diameter. All units are on conical leads, except TC types 81, 83 and 84, which have an operating range to 65°C. Av. shpg. wt., 4 oz.

## TYPE TC SINGLE CAPACITORS (cont'd)

| Stock No. | Type  | Mfd  | WVDC | Size        | NET  |
|-----------|-------|------|------|-------------|------|
| 17 L 931  | 499   | 300  | 150  | 1 1/2x3"    | 1.53 |
| 17 L 932  | 31    | 1    | 50   | 1 1/2x1 1/4 | .54  |
| 17 L 939  | 302   | 2    | 50   | 1 1/2x1 1/4 | .54  |
| 17 L 623  | 32    | 10   | 50   | 1 1/2x1 1/4 | .60  |
| 17 L 604  | 36    | 25   | 50   | 1 1/2x1 1/4 | .63  |
| 17 L 605  | 39    | 50   | 50   | 1 1/2x1 1/4 | .72  |
| 17 L 641  | 3501  | 100  | 50   | 1 1/2x1 1/4 | .84  |
| 17 L 642  | 50025 | 250  | 50   | 1 1/2x1 1/4 | 1.05 |
| 17 L 600  | 22    | 10   | 25   | 1 1/2x1 1/4 | .60  |
| 17 L 602  | 26    | 25   | 25   | 1 1/2x1 1/4 | .60  |
| 17 L 500  | 2501  | 100  | 25   | 1 1/2x1 1/4 | .81  |
| 17 L 466  | 2505  | 150  | 25   | 1 1/2x1 1/4 | 1.38 |
| 17 L 642  | 1502  | 200  | 15   | 1 1/2x1 1/4 | .84  |
| 17 L 209  | 1501  | 1000 | 15   | 1 1/2x1 1/4 | 1.38 |
| 17 L 461  | 605   | 500  | 6    | 1 1/2x1 1/4 | .93  |
| 17 L 804  | 304   | 200  | 3    | 1 1/2x1 1/4 | .69  |
| 17 L 463  | 310   | 1000 | 3    | 1 1/2x1 1/4 | 1.02 |

## TC COMMON-NEGATIVE DIALS

| TC       | Fig. | Mfd     | WVDC | Size        | NET  |
|----------|------|---------|------|-------------|------|
| 17 L 507 | 72   | 10-10   | 450  | 1 1/2x3"    | 1.10 |
| 17 L 472 | 75   | 20-20   | 450  | 1 1/2x3"    | 1.10 |
| 17 L 503 | 45   | 20-20   | 250  | 1 1/2x1 1/4 | .99  |
| 17 L 480 | 485  | 40-40   | 150  | 1 1/2x1 1/4 | 1.05 |
| 17 L 478 | 48   | 40-40   | 150  | 1 1/2x2"    | 1.17 |
| 17 L 482 | 49   | 50-30   | 150  | 1 1/2x2"    | 1.17 |
| 17 L 481 | 49   | 50-30   | 150  | 1 1/2x2"    | 1.25 |
| 17 L 344 | 88   | 50-25   | 150  | 1 1/2x1 1/4 | 1.41 |
| 17 L 345 | 89   | 25-25   | 25   | 1 1/2x1 1/4 | .43  |
| 17 L 081 | *16  | 500-100 | 16   | 1 1/2x2"    | .78  |

## TCT TRIPLE COMMON NEGATIVE

| TCT      | Fig. | Mfd   | WVDC | Size         | NET  |
|----------|------|-------|------|--------------|------|
| 17 L 374 | 3114 | 40-20 | 150  | 1 1/2x2 1/4" | 1.35 |
| 17 L 375 | 3115 | 40-40 | 150  | 1 1/2x2 1/4" | 1.47 |
| 17 L 376 | 3116 | 40-40 | 150  | 1 1/2x2 1/4" | 1.41 |
| 17 L 371 | 3107 | 50-30 | 150  | 1 1/2x2 1/4" | 1.41 |

## TYPE TT MINIATURE ALUMINUM DRY ELECTROLYTICS

Extremely small, aluminum-case, dry electrolytic capacitors. Ultra-miniature size permits very compact construction of portable and mobile communications equipment, radios, hearing aids, etc. Ideal for transistorized circuits and other equipment requiring utmost economy of space. Incorporated into aluminum construction to assure optimum efficiency and stability. A special silicon-rubber-compound end sealer is used.

All units have very low leakage current. Have operating range of -40°C to +85°C. Tolerance of capacitors up to and including 50 WVDC is -10% to +150%. Tolerance of all above 50 WVDC is -10% to +100%. Leads of all units listed are 22 gauge, tinned copper wire. Av. shpg. wt., 2 oz.



| Stock No. | Type     | Mfd | WVDC | Size         | NET  |
|-----------|----------|-----|------|--------------|------|
| 17 L 900  | T7350X2  | 2   | 350  | 2 1/2x4 1/4" | 1.05 |
| 17 L 901  | T7350X1  | 1   | 250  | 2 1/2x4 1/4" | 1.02 |
| 17 L 911  | T7150X1  | 1   | 150  | 3 1/2x1 1/4" | .84  |
| 17 L 902  | T7150X2  | 2   | 150  | 3 1/2x1 1/4" | .87  |
| 17 L 903  | T7150X3  | 3   | 150  | 2 1/2x4 1/4" | .87  |
| 17 L 798  | T7150X4  | 4   | 150  | 2 1/2x4 1/4" | .87  |
| 17 L 904  | T7150X5  | 5   | 150  | 2 1/2x4 1/4" | .93  |
| 17 L 905  | T7150X8  | 8   | 150  | 2 1/2x4 1/4" | .96  |
| 17 L 906  | T7150X10 | 10  | 150  | 2 1/2x4 1/4" | .96  |
| 17 L 907  | T7150X12 | 12  | 150  | 2 1/2x4 1/4" | .96  |
| 17 L 910  | T7180X4  | 4   | 80   | 3 1/2x1 1/4" | .87  |
| 17 L 793  | T7150X5  | 5   | 50   | 2 1/2x1 1/4" | .90  |
| 17 L 794  | T7150X10 | 10  | 50   | 2 1/2x1 1/4" | .90  |
| 17 L 795  | T7150X20 | 20  | 50   | 2 1/2x1 1/4" | .90  |
| 17 L 908  | T7150X35 | 35  | 50   | 2 1/2x1 1/4" | 1.02 |
| 17 L 789  | T725X35  | 5   | 25   | 3 1/2x1 1/4" | .84  |
| 17 L 909  | T725X6   | 6   | 25   | 3 1/2x1 1/4" | .84  |
| 17 L 792  | T725X20  | 20  | 25   | 3 1/2x1 1/4" | .90  |
| 17 L 912  | T725X25  | 25  | 25   | 3 1/2x1 1/4" | .93  |
| 17 L 787  | T715X20  | 20  | 15   | 3 1/2x1 1/4" | .87  |
| 17 L 788  | T715X30  | 30  | 15   | 2 1/2x4 1/4" | .90  |
| 17 L 913  | T715X40  | 40  | 15   | 2 1/2x4 1/4" | .90  |
| 17 L 914  | T715X50  | 50  | 15   | 2 1/2x4 1/4" | .96  |





# Wist-Prong Electrolytic Capacitors

DUAL SECTION (Cont'd)—Specify Stock Number and Manufacturer's Type Number When Ordering

| Stock No. | Cap. Mfd. | DC Wkg. Volts | Sprague    |               | Mallory |               | C-D     |               | NET EACH |
|-----------|-----------|---------------|------------|---------------|---------|---------------|---------|---------------|----------|
|           |           |               | Type       | Size          | Type    | Size          | Type    | Size          |          |
| LL 802    | 50-30     | 150           | TVL-2435   | 1x2 1/4       | FP213.1 | 1x2           |         |               | 1.18     |
| LL 803    | 50-30     | 150           | TVL-2435   | 1x2 1/4       | FP214   | 1x2 1/4       |         |               | 1.26     |
| LL 804    | 70-30     | 150           | TVL-2439   | 1x2 1/4       | FP214.3 | 1x2           | XB0161* | 1x2 1/4       | 1.26     |
| LL 805    | 80-40     | 150           | TVL-2442   | 1 1/2 x 2 1/4 | FP216.2 | 1x2 1/4       | XB0181* | 1x2 1/4       | 1.35     |
| LL 806    | 80-50     | 150           | TVL-2442.1 | 1x2 1/4       |         |               |         |               | 1.41     |
| LL 807    | 200-5     | 150           | TVL-2444   | 1 1/2 x 3     | FP216.1 | 1 1/2 x 2 1/4 |         |               | 1.59     |
| LL 808    | 200-200   | 150           | TVL-2447   | 1 1/2 x 4     | FP216.4 | 1 1/2 x 4     |         |               | 2.35     |
| LL 809    | 200-200   | 500           | TVL-3965   | 1 1/2 x 4     | FP216.4 | 1 1/2 x 3     |         |               | 3.35     |
| LL 810    | 50-50     | 50            | TVL-2320   | 1x2           | WP202.1 | 1x2           | B0080   | 1x2           | 1.00     |
| LL 811    | 100-100   | 50            | TVL-2326   | 1x2           | WP202.5 | 1x2           | B0085   | 1x2           | 1.23     |
| LL 812    | 40-40     | 25            | TVL-2210   | 1x2           | WP201.1 | 1x2           | B0060   | 1x2           | 1.17     |
| LL 813    | 1000-1000 | 15            | TVL-2160   | 1x3 1/4       | WP200   | 1 1/2 x 2 1/4 | B0040   | 1 1/2 x 2 1/4 | 2.58     |

TRIPLE SECTION—Specify Stock Number and Manufacturer's Type Number When Ordering

| Stock No. | Cap. Mfd.  | DC Wkg. Volts | Sprague    |               | Mallory   |               | C-D     |               | NET EACH |
|-----------|------------|---------------|------------|---------------|-----------|---------------|---------|---------------|----------|
|           |            |               | Type       | Size          | Type      | Size          | Type    | Size          |          |
| LL 814    | 10-10-10   | 500           | TVL-3952   | 1x3           |           |               | C0380   | 1x3           | 1.58     |
| LL 815    | 30-20-20   | 500           | TVL-3956   | 1 1/2 x 3     |           |               | C0390   | 1 1/2 x 3     | 2.46     |
| LL 816    | 40-40-10   | 500           | TVL-3965   | 1 1/2 x 3 1/4 |           |               | C0410   | 1 1/2 x 3 1/4 | 2.97     |
| LL 817    | 40-40-100  | 500-500-200   | TVL-3935   | 1 1/2 x 3     |           |               | C1180   | 1 1/2 x 3     | 3.41     |
| LL 818    | 20-10-100  | 500-500-50    | TVL-3928   | 1x3           |           |               | C1150   | 1x3 1/2       | 1.94     |
| LL 820    | 30-30-20   | 475           | TVL-3840   | 1 1/2 x 3     | FP396     | 1 1/2 x 3     | C0371   | 1 1/2 x 3     | 2.61     |
| LL 821    | 40-10-10   | 475           | TVL-3841   | 1 1/2 x 3     | FP396.2   | 1 1/2 x 2 1/4 |         |               | 3.40     |
| LL 822    | 40-30-30   | 475           | TVL-3843   | 1 1/2 x 3     |           |               | C0374   | 1 1/2 x 3 1/4 | 3.03     |
| LL 823    | 20-10-100  | 475-475-50    | TVL-3817   | 1 1/2 x 3     | FP375.8   | 1x2 1/4       | C0240   | 1x2 1/4       | 1.91     |
| LL 824    | 10-10-10   | 450           | TVL-3776   | 1x3 1/2       |           |               |         |               | 1.52     |
| LL 825    | 15-15-10   | 450           | TVL-3778   | 1x3 1/2       | FP376.1   | 1x3           | C0250   | 1x3           | 2.61     |
| LL 826    | 20-10-10   | 450           | TVL-3779   | 1x3           | FP376.3   | 1x3           | C0260   | 1x3           | 1.70     |
| LL 827    | 20-20-20   | 450           | TVL-3780   | 1 1/2 x 2 1/4 | FP376.5   | 1 1/2 x 2 1/4 | C0270   | 1 1/2 x 2 1/4 | 2.12     |
| LL 828    | 30-20-20   | 450           | TVL-3781   | 1 1/2 x 3     |           |               | C0280   | 1 1/2 x 3     | 2.65     |
| LL 829    | 30-30-30   | 450           | TVL-3782   | 1 1/2 x 3 1/2 |           |               | C0300   | 1 1/2 x 3     | 2.26     |
| LL 829    | 40-30-20   | 450           | TVL-3784   | 1 1/2 x 3     |           |               | C0330   | 1 1/2 x 3     | 2.52     |
| LL 830    | 40-40-10   | 450           | TVL-3785   | 1 1/2 x 3 1/2 | FP376.8   | 1 1/2 x 3     | C0340   | 1 1/2 x 3     | 2.44     |
| LL 831    | 40-40-20   | 450           | TVL-3786   | 1 1/2 x 3     |           |               | C0344   | 1 1/2 x 3 1/2 | 2.61     |
| LL 832    | 40-40-40   | 450           | TVL-3787   | 1 1/2 x 3 1/2 | FP377     | 1 1/2 x 4     | C0350   | 1 1/2 x 3 1/2 | 2.88     |
| LL 833    | 60-20-20   | 450           | TVL-3789   | 1 1/2 x 3     |           |               | C0360   | 1 1/2 x 3 1/2 | 2.70     |
| LL 834    | 60-30-10   | 450           | TVL-3790   | 1 1/2 x 3 1/2 |           |               |         |               | 2.63     |
| LL 835    | 60-40-20   | 450           | TVL-3791   | 1 1/2 x 3 1/2 |           |               | C0365   | 1 1/2 x 3 1/2 | 2.94     |
| LL 836    | 80-40-20   | 450           | TVL-3793   | 1 1/2 x 4     | FP378     | 1 1/2 x 4     | C0370   | 1 1/2 x 4 1/2 | 3.17     |
| LL 837    | 40-10-80   | 450-450-200   | TVL-3761   | 1 1/2 x 3     | FP375     | 1 1/2 x 4     | C1050   | 1 1/2 x 3     | 2.29     |
| LL 838    | 40-40-100  | 450-450-200   | TVL-3764   | 1 1/2 x 4     |           |               |         |               | 2.91     |
| LL 839    | 40-40-40   | 450-450-150   | TVL-3758   | 1 1/2 x 3 1/2 |           |               |         |               | 2.44     |
| LL 840    | 40-40-100  | 450-450-50    | TVL-3751   | 1 1/2 x 3     | FP366     | 1x3           | C0970   | 1x3           | 1.67     |
| LL 841    | 30-15-150  | 450-450-50    | TVL-3753   | 1 1/2 x 3     |           |               |         |               | 2.17     |
| LL 842    | 40-10-100  | 450-450-50    | TVL-3754.2 | 1 1/2 x 3     |           |               | C1090   | 1 1/2 x 3 1/2 | 2.52     |
| LL 843    | 80-20-100  | 450-450-50    | TVL-3757   | 1 1/2 x 4     |           |               | C1108   | 1 1/2 x 4 1/2 | 2.82     |
| LL 843    | 10-10-20   | 450-450-25    | TVL-3731   | 1x2 1/4       | FP345.2   | 1x2           | C0910   | 1x2           | 1.41     |
| LL 844    | 20-10-20   | 450-450-25    | TVL-3733   | 1x3           | FP345.5   | 1x3           | C0960   | 1x2 1/4       | 1.58     |
| LL 845    | 20-20-20   | 450-450-25    | TVL-3735   | 1x3           | FP345.8   | 1x3           | C0990   | 1x3           | 1.79     |
| LL 847    | 40-40-20   | 450-450-25    | TVL-3744   | 1 1/2 x 3     | FP346     | 1 1/2 x 3     | C1070   | 1 1/2 x 3     | 2.29     |
| LL 848    | 40-90-50   | 450-150-150   | TVL-3708   | 1 1/2 x 3     | FP341     | 1 1/2 x 3     | C1260   | 1 1/2 x 3     | 2.35     |
| LL 849    | 100-10-80  | 400-400-350   | TVL-3689.3 | 1 1/2 x 4     | FP333.85  | 1 1/2 x 4     | C0896   | 1 1/2 x 4 1/4 | 3.58     |
| LL 850    | 20-20-20   | 400-400-25    | TVL-3678   | 1x3           |           |               |         |               | 1.67     |
| LL 851    | 10-10-10   | 350           | TVL-3639.8 | 1x3           | FP330.5   | 1x2           | C0210   | 1x2           | 1.91     |
| LL 852    | 30-20-10   | 350           | TVL-3640   | 1 1/2 x 4     | FP330.7   | 1x3           | C0225   | 1x3           | 1.91     |
| LL 853    | 60-40-20   | 350           |            |               |           |               | C0230   | 1 1/2 x 3     | 2.49     |
| LL 855    | 20-10-5    | 350-350-250   | TVL-3639.4 | 1x2 1/4       | FP330.3   | 1x2           |         |               | 1.50     |
| LL 856    | 100-60-20  | 350-350-200   | TVL-3639.2 | 1 1/2 x 4     |           |               | C0875   | 1 1/2 x 4 1/2 | 3.23     |
| LL 857    | 15-10-25   | 350-350-25    | TVL-3639   | 1x2 1/4       | FP328     | 1x2           | C0770   | 1x2           | 1.47     |
| LL 858    | 20-20-20   | 350-350-25    | TVL-3635   | 1x2 1/4       | FP329.5   | 1x2           | C0800   | 1 1/2 x 1/4   | 1.70     |
| LL 859    | 350-350-25 | 350-350-25    | TVL-3634   | 1x2 1/4       |           |               | C0780   | 1x2 1/4       | 1.50     |
| LL 860    | 30-30-20   | 350-350-25    | TVL-3636.3 | 1 1/2 x 2     |           |               | C0840   | 1 1/2 x 2     | 2.00     |
| LL 861    | 30-30-20   | 350-300-25    | TVL-3620   | 1x3           | FP331     | 1x3           | C1310   | 1x3           | 1.85     |
| LL 862    | 10-10-100  | 350-150-50    | TVL-3608   | 1 1/2 x 4     |           |               |         |               | 1.67     |
| LL 863    | 120-50-40  | 300           | TVL-3585   | 1 1/2 x 4     |           |               | C0210   | 1x2           | 1.41     |
| LL 864    | 150-100-30 | 300           |            |               | PPP326.76 | 1 1/2 x 4     | C0200   | 1 1/2 x 4 1/2 | 3.43     |
| LL 866    | 100-60-20  | 300-250-250   | TVL-3562   | 1 1/2 x 4     | FP335     | 1 1/2 x 3     |         |               | 3.00     |
| LL 867    | 200-60-20  | 300-250-250   | TVL-3563   | 1 1/2 x 4     |           |               |         |               | 2.88     |
| LL 868    | 100-200-60 | 300-150-150   | TVL-3560.5 | 1 1/2 x 4     | FP326.3   | 1 1/2 x 4     |         |               | 3.23     |
| LL 869    | 40-20-20   | 250           | TVL-3540   | 1 1/2 x 4     | FP320     | 1 1/2 x 2     | C0160   | 1x3           | 1.74     |
| LL 871    | 30-30-20   | 250-250-25    | TVL-3513   | 1x3           |           |               | C0670   | 1x2 1/4       | 1.64     |
| LL 872    | 80-40-50   | 250-150-50    | TVL-3506   | 1 1/2 x 2 1/4 | FP319     | 1 1/2 x 2 1/4 | C1280   | 1 1/2 x 2 1/4 | 1.38     |
| LL 873    | 80-10-20   | 200-200-50    | TVL-3471   | 1x3           |           |               |         |               | 1.64     |
| LL 874    | 60-200-140 | 200-150-150   | TVL-3461.4 | 1 1/2 x 4     |           |               | XC1202* | 1 1/2 x 4 1/2 | 2.82     |
| LL 875    | 20-20-20   | 150           | TVL-3433   | 1x2 1/4       | FP311.2   | 1x2           | XC0041* | 1x2           | 1.35     |
| LL 876    | 40-20-20   | 150           | TVL-3437   | 1x2 1/4       | FP311.4   | 1x2 1/4       | XC0071* | 1x2           | 1.47     |
| LL 877    | 40-30-20   | 150           | TVL-3438   | 1x2           |           |               | C0080   | 1x2           | 1.41     |
| LL 878    | 40-40-40   | 150           | TVL-3440   | 1 1/2 x 3     | FP311.5   | 1x3           | C0090   | 1x2 1/4       | 1.52     |
| LL 879    | 50-40-30   | 150           |            |               | PPP311.63 | 1x2 1/4       |         |               | 1.88     |
| LL 880    | 50-50-50   | 150           | TVL-3442   | 1x3           |           |               | XC0105* | 1x3           | 1.76     |
| LL 881    | 60-40-20   | 150           | TVL-3443   | 1x3           |           |               | C0110   | 1x2 1/4       | 1.70     |
| LL 882    | 80-40-20   | 150           | TVL-3444   | 1x3           | FP311.7   | 1 1/2 x 3     | C0120   | 1x2           | 1.62     |
| LL 883    | 120-120-40 | 150           | TVL-3448.2 | 1 1/2 x 3     | FP311.9   | 1 1/2 x 3     | XC0126* | 1 1/2 x 3     | 2.38     |
| LL 884    | 250-200-10 | 150           |            |               |           |               | XC0129* | 1 1/2 x 3 1/2 | 3.29     |
| LL 885    | 200-100-60 | 150           | TVL-3450   | 1 1/2 x 3 1/2 |           |               | XC0127* | 1 1/2 x 3 1/2 | 2.66     |
| LL 893    | 30-30-10   | 150-150-150   | TVL-3435   | 1x2           |           |               |         |               | 1.67     |
| LL 894    | 100-30-10  | 150-150-150   | TVL-3437   | 1x3           |           |               |         |               | 1.79     |
| LL 895    | 40-20-100  | 150-150-25    | TVL-3423   | 1x2 1/4       | FP310     | 1x2 1/4       | C0490   | 1x2           | 2.20     |
| LL 897    | 40-40-20   | 150-150-25    | TVL-3426   | 1x2 1/4       | FP310     | 1x2 1/4       | XC0551* | 1x2           | 1.61     |
| LL 898    | 40-20-200  | 150-150-25    | TVL-3423.2 | 1x3           | FP314     | 1x3           |         |               | 1.58     |
| LL 899    | 50-30-100  | 150-150-25    | TVL-3427   | 1x3           | FP309     | 1x2 1/4       |         |               | 1.58     |
| LL 890    | 50-50-20   | 150-150-25    | TVL-3430   | 1x3           | FP311     | 1x3           | C0580   | 1x2 1/4       | 1.55     |
| LL 891    | 60-40-200  | 150-150-25    | TVL-3431.3 | 1x3           |           |               |         |               | 1.79     |
| LL 892    | 70-30-100  | 150-150-10    |            |               | PPP302.38 | 1x2 1/4       |         |               | 1.55     |
| LL 893    | 80-60-250  | 150-150-10    |            |               | FP302.5   | 1x2 1/4       | XC0615* | 1 1/2 x 2 1/4 | 2.00     |
| LL 894    | 90-40-400  | 150-150-10    | TVL-3414.5 | 1 1/2 x 2 1/4 | PPP302.75 | 1x3           |         |               | 3.08     |
| LL 895    | 20-20-20   | 25            | TVL-3210   | 1x2           |           |               | C0010   | 1x2           | 1.14     |
| LL 896    | 40-40-40   | 25            | TVL-3230   | 1x2           | WP520     | 1x2           |         |               | 1.88     |

See Additional Sprague, Mallory & C-D, Capacitor Listings on Next Page

# Sprague, Mallory, Cornell and Centralab Capacitors

FOUR-SECTION TWIST-PRONG ELECTROLYTICS—Specify Stock No. & Mfr's. Type

| Stock No. | Cap. Mfd.      | DC Wkg. Volts   | Sprague    |                | Mallory  |                | C-D     |                | NET EACH |
|-----------|----------------|-----------------|------------|----------------|----------|----------------|---------|----------------|----------|
|           |                |                 | Type       | Size           | Type     | Size           | Type    | Size           |          |
| 70 LL 700 | 10-10-10-10    | 500             | TVL-4940   | 1 1/2 x 2"     |          |                | D0180   | 1 1/2 x 2"     | 2.06     |
| 70 LL 701 | 40-40-8-8      | 500             | TVL-4944   | 1 1/2 x 2"     | FP495    | 1 1/2 x 4"     | D0185   | 1 1/2 x 3 1/2" | 3.35     |
| 70 LL 702 | 30-10-150-50   | 500-450-50-50   | TVL-4917   | 1 1/2 x 3"     |          |                | D0192   | 1 1/2 x 3"     | 2.47     |
| 70 LL 703 | 20-20-10-10    | 475             | TVL-4932   | 1 1/2 x 3"     | FP474.5  | 1 1/2 x 2 1/2" | D0179.3 | 1 1/2 x 2 1/2" | 2.56     |
| 70 LL 704 | 20-20-20-20    | 475             | TVL-4834   | 1 1/2 x 3"     | FP475    | 1 1/2 x 3"     | D0179.5 | 1 1/2 x 3"     | 3.00     |
| 70 LL 705 | 40-20-10-10    | 475             |            |                |          |                |         |                |          |
| 70 LL 706 | 50-30-10-20    | 475-475-475-300 | TVL-4840   | 1 1/2 x 3"     | FP476    | 1 1/2 x 3"     | D0179.7 | 1 1/2 x 3"     | 3.00     |
| 70 LL 707 | 15-15-40-40    | 475-475-300-50  | TVL-4827   | 1 1/2 x 3 1/2" |          |                | D0692   | 1 1/2 x 3 1/2" | 3.29     |
| 70 LL 708 | 20-40-100-80   | 475-300-50-25   | TVL-4815   | 1 1/2 x 3"     |          |                | D0840   | 1 1/2 x 3"     | 2.82     |
| 70 LL 710 | 5-5-5-5        | 450             | TVL-4800   | 1 1/2 x 2"     | WP433.6  | 1 1/2 x 2"     | D0090   | 1 1/2 x 2"     | 1.7      |
| 70 LL 711 | 10-10-10-10    | 450             | TVL-4759.7 | 1 1/2 x 2"     |          |                | D0080   | 1 1/2 x 2"     | 1.7      |
| 70 LL 712 | 20-10-10-10    | 450             | TVL-4760   | 1 1/2 x 2"     | FP434    | 1 1/2 x 2"     | D0090   | 1 1/2 x 2"     | 1.9      |
| 70 LL 713 | 20-20-20-20    | 450             | TVL-4761   | 1 1/2 x 2 1/2" | FP434.5  | 1 1/2 x 2"     | D0120   | 1 1/2 x 2 1/2" | 2.18     |
| 70 LL 714 | 30-30-20-20    | 450             | TVL-4763   | 1 1/2 x 3"     | FP444    | 1 1/2 x 3"     | D0140   | 1 1/2 x 3"     | 2.76     |
| 70 LL 715 | 35-35-10-5     | 450             | TVL-4769.4 | 1 1/2 x 3"     | FP444.8  | 1 1/2 x 3"     | D0144   | 1 1/2 x 3"     | 2.63     |
| 70 LL 716 | 40-20-10-10    | 450             | TVL-4771   | 1 1/2 x 3 1/2" | FP445    | 1 1/2 x 3"     | D0150   | 1 1/2 x 3 1/2" | 2.70     |
| 70 LL 717 | 40-40-20-20    | 450             |            |                |          |                | D0170   | 1 1/2 x 3"     | 3.26     |
| 70 LL 718 | 40-40-30-30    | 450             | TVL-4773   | 1 1/2 x 4"     | FP447    | 1 1/2 x 4"     | D0174   | 1 1/2 x 4 1/2" | 3.26     |
| 70 LL 719 | 40-40-40-40    | 450             | TVL-4774   | 1 1/2 x 4"     |          |                | D0176   | 1 1/2 x 4 1/2" | 3.56     |
| 70 LL 720 | 40-40-40-40    | 450             | TVL-4775   | 1 1/2 x 4"     |          |                | D0177   | 1 1/2 x 5"     | 3.79     |
| 70 LL 721 | 40-40-100-100  | 450-450-450-100 | TVL-4747   | 1 1/2 x 3 1/2" |          |                | D0660   | 1 1/2 x 3 1/2" | 3.26     |
| 70 LL 722 | 30-30-15-30    | 450-450-450-50  | TVL-4742   | 1 1/2 x 3"     |          |                | D0560   | 1 1/2 x 2"     | 2.68     |
| 70 LL 723 | 10-10-10-20    | 450-450-450-50  | TVL-4723   | 1 1/2 x 2"     |          |                | D0480   | 1 1/2 x 2"     | 2.44     |
| 70 LL 724 | 40-30-20-20    | 450-450-450-25  | TVL-4724.2 | 1 1/2 x 2 1/2" |          |                | D0520   | 1 1/2 x 2 1/2" | 2.65     |
| 70 LL 725 | 40-30-10-20    | 450-450-450-25  | TVL-4734   | 1 1/2 x 3 1/2" | FP429    | 1 1/2 x 3"     | D0640   | 1 1/2 x 3"     | 2.73     |
| 70 LL 726 | 40-20-20-40    | 450-450-450-25  | TVL-4732   | 1 1/2 x 3"     |          |                | D0630   | 1 1/2 x 3"     | 2.76     |
| 70 LL 727 | 40-40-10-20    | 450-450-450-25  | TVL-4736   | 1 1/2 x 3 1/2" |          |                | D0663.2 | 1 1/2 x 3 1/2" | 2.76     |
| 70 LL 728 | 40-40-40-40    | 450-450-450-25  | TVL-4739   | 1 1/2 x 3"     | FP430.6  | 1 1/2 x 4"     |         |                | 2.03     |
| 70 LL 729 | 20-15-20-20    | 450-450-25-25   | TVL-4712   | 1 1/2 x 2"     | FP420    | 1 1/2 x 2"     |         |                | 2.85     |
| 70 LL 730 | 30-125-125-125 | 450-450-25-25   | TVL-4712.3 | 1 1/2 x 3"     |          |                |         |                | 2.88     |
| 70 LL 731 | 40-40-20-20    | 450-300-300-150 | TVL-4703.7 | 1 1/2 x 3"     | FP413X   | 1 1/2 x 3"     |         |                | 3.12     |
| 70 LL 732 | 80-40-10-20    | 400-400-400-25  | TVL-4669   | 1 1/2 x 4"     |          |                | D0477   | 1 1/2 x 3 1/2" | 3.12     |
| 70 LL 733 | 80-40-30-40    | 400-400-400-25  | TVL-4670   | 1 1/2 x 4"     |          |                | D0478   | 1 1/2 x 4 1/2" | 3.56     |
| 70 LL 734 | 100-10-30-20   | 400-400-50-50   | TVL-4663.5 | 1 1/2 x 3 1/2" |          |                | D0875   | 1 1/2 x 3 1/2" | 3.00     |
| 70 LL 735 | 50-40-100-100  | 400-400-50-25   | TVL-4663.2 | 1 1/2 x 3 1/2" | FP420.45 | 1 1/2 x 4"     |         |                | 3.50     |
| 70 LL 736 | 80-60-10-20    | 350             | TVL-4655.7 | 1 1/2 x 4"     |          |                |         |                | 3.76     |
| 70 LL 737 | 20-10-5-10     | 350-350-350-25  | TVL-4620   | 1 1/2 x 2"     |          |                | D0410   | 1 1/2 x 2"     | 1.82     |
| 70 LL 738 | 40-40-20-20    | 350-350-350-25  | TVL-4621.6 | 1 1/2 x 3"     | FP419.3  | 1 1/2 x 3"     | D0430   | 1 1/2 x 3"     | 2.73     |
| 70 LL 739 | 60-40-60-20    | 350-350-200-150 | TVL-4609   | 1 1/2 x 3 1/2" | FP419.67 | 1 1/2 x 4"     |         |                | 3.85     |
| 70 LL 740 | 60-100-60-40   | 350-350-200-75  |            |                |          |                |         |                | 2.88     |
| 70 LL 741 | 40-100-100-20  | 350-350-150-25  | TVL-4608   | 1 1/2 x 4"     |          |                | D0020   | 1 1/2 x 2 1/2" | 2.68     |
| 70 LL 742 | 40-40-20-10    | 300             | TVL-4579   | 1 1/2 x 3 1/2" |          |                | D0770   | 1 1/2 x 5"     | 3.47     |
| 70 LL 743 | 40-40-40-20    | 300-300-300-150 | TVL-4575   | 1 1/2 x 3"     |          |                | D0866   | 1 1/2 x 5"     | 3.67     |
| 70 LL 744 | 100-10-200-30  | 300-300-150-150 | TVL-4561   | 1 1/2 x 4"     |          |                |         |                | 3.41     |
| 70 LL 745 | 140-10-200-30  | 300-300-150-150 | TVL-4561.3 | 1 1/2 x 4"     | FP419    | 1 1/2 x 4"     | D0940   | 1 1/2 x 5"     | 3.03     |
| 70 LL 746 | 100-40-100-10  | 250-250-250-50  | TVL-4516   | 1 1/2 x 3 1/2" |          |                | D0360   | 1 1/2 x 3 1/2" | 2.09     |
| 70 LL 747 | 100-80-60-40   | 150             | TVL-4445   | 1 1/2 x 3"     | FP412    | 1 1/2 x 3"     | D0014   | 1 1/2 x 2"     | 3.15     |
| 70 LL 748 | 40-40-40-30    | 150             | TVL-4441   | 1 1/2 x 2"     |          |                | D0010   | 1 1/2 x 2"     | 1.82     |
| 70 LL 749 | 250-200-10-25  | 150-150-150-50  | TVL-4440   | 1 1/2 x 4"     |          |                | D0210   | 1 1/2 x 2"     | 1.82     |
| 70 LL 750 | 30-30-30-40    | 150-150-150-25  | TVL-4415   | 1 1/2 x 2"     |          |                | D0240   | 1 1/2 x 2"     | 3.26     |
| 70 LL 751 | 40-40-40-100   | 150-150-150-25  | TVL-4420   | 1 1/2 x 2"     | FP409    | 1 1/2 x 2 1/2" | D0325   | 1 1/2 x 2"     | 2.20     |
| 70 LL 752 | 80-40-30-100   | 150-150-150-25  | TVL-4430   | 1 1/2 x 2 1/2" | FP411    | 1 1/2 x 2 1/2" | D0330   | 1 1/2 x 2 1/2" | 2.03     |
| 70 LL 753 | 80-40-40-20    | 150-150-150-25  | TVL-4431   | 1 1/2 x 2"     |          |                | D0300   | 1 1/2 x 2"     | 2.09     |
| 70 LL 754 | 80-40-40-100   | 150-150-150-25  | TVL-4434   | 1 1/2 x 2 1/2" |          |                |         |                |          |
| 70 LL 755 | 60-40-20-200   | 150-150-150-10  | TVL-4414   | 1 1/2 x 2"     | FP408    | 1 1/2 x 2"     |         |                |          |
| 70 LL 757 | 50-40-160-40   | 150-150-25-25   | TVL-4410.7 | 1 1/2 x 2"     |          |                |         |                |          |

## CENTRALAB TC TEMPERATURE-COMPENSATING CAPACITORS

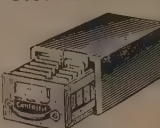
Employ special coating to minimize time lag between temperature change and capacity compensation. Comply with JAN-C-20A specs. TCZ is NPO; capacity constant from -20 to +85°C. TCN has negative coefficient of 750 parts/million/°C. A variety of other coefficients may be obtained by ordering other combinations of capacitors in parallel. All units listed are rated 600 working volts DC. Av. shpg. wt., 2 oz.

| TYPE TCN—NEGATIVE (N750) |     |          |
|--------------------------|-----|----------|
| Stock No.                | Mmf | NET EACH |
| 1 L 241                  | 5   | 30c      |
| 1 L 250                  | 10  |          |
| 1 L 252                  | 15  |          |
| 1 L 253                  | 22  |          |
| 1 L 259                  | 33  |          |
| 1 L 495                  | 50  | 30c      |
| 1 L 271                  | 100 | 30c      |
| 1 L 278                  | 200 | 30c      |
| 1 L 292                  | 750 | 60c      |

| TYPE TCZ NEG.-POS.—ZERO (NPO) |     |          |
|-------------------------------|-----|----------|
| Stock No.                     | Mmf | NET EACH |
| 1 L 200                       | 5   | 30c      |
| 1 L 201                       | .68 |          |
| 1 L 203                       | 1.5 |          |
| 1 L 204                       | 2.2 |          |
| 1 L 202                       | 1.0 | 30c      |
| 1 L 205                       | 3.3 |          |
| 1 L 207                       | 4.7 |          |
| 1 L 207                       | 6.8 |          |
| 1 L 208                       | 10  | 30c      |
| 1 L 209                       | 12  |          |
| 1 L 210                       | 15  |          |
| 1 L 211                       | 18  |          |

| TC CAPACITOR SIZES            |                |            |                |
|-------------------------------|----------------|------------|----------------|
| TYPE TCN                      |                | TYPE TCZ   |                |
| Cap. Mmf                      | Size           | Cap. Mmf   | Size           |
| 3.3 to 100                    | 1 1/2 x 1 1/2" | 0.5 to 39  | 1 1/2 x 1 1/2" |
| 110 to 200                    | 1 1/2 x 1 1/2" | 43 to 82   | 1 1/2 x 1 1/2" |
| 220 to 270                    | 1 1/2 x 1 1/2" | 91 to 100  | 1 1/2 x 1 1/2" |
| 300 to 560                    | 1 1/2 x 1 1/2" | 110 to 220 | 1 1/2 x 1 1/2" |
| 620 to 750                    | 1 1/2 x 1 1/2" | 240 to 300 | 1 1/2 x 1 1/2" |
| TYPE TCZ NEG.-POS.—ZERO (NPO) |                |            |                |
| Stock No.                     | Mmf            | NET EACH   |                |
| 1 L 212                       | 20             | 30c        |                |
| 1 L 213                       | 22             |            |                |
| 1 L 214                       | 24             |            |                |
| 1 L 215                       | 25             |            |                |
| 1 L 216                       | 27             |            |                |
| 1 L 217                       | 30             | 30c        |                |
| 1 L 218                       | 33             |            |                |
| 1 L 219                       | 39             |            |                |
| 1 L 220                       | 43             |            |                |
| 1 L 221                       | 47             |            |                |
| 1 L 493                       | 50             | 30c        |                |
| 1 L 222                       | 51             |            |                |
| 1 L 223                       | 56             |            |                |
| 1 L 225                       | 68             |            |                |
| 1 L 226                       | 75             | 30c        |                |
| 1 L 227                       | 82             |            |                |
| 1 L 228                       | 91             |            |                |
| 1 L 229                       | 100            |            |                |
| 1 L 231                       | 120            | 45c        |                |
| 1 L 232                       | 130            |            |                |
| 1 L 233                       | 150            |            |                |
| 1 L 235                       | 180            |            |                |
| 1 L 236                       | 200            | 60c        |                |
| 1 L 237                       | 220            |            |                |
| 1 L 238                       | 240            |            |                |
| 1 L 239                       | 270            |            |                |
| 1 L 240                       | 300            |            |                |

## CENTRALAB CERAMIC KITS



**DDK 200** Ceramic Capacitor Kit. Consists of 200 Type DDK ceramic capacitors. A 1000 WVDC unit specified, 5 each of 10, 25, 33, 47, 50, 68, 120, 150, 180, 220, 250, 270, 300, 330, 360, 390, 470, 500, 560, 680, 750, 820, 1000, 1500, 3000, 4700, 10,000 (600 v.) mmf. 10 each—100, 200 mmf. 15 each—1000, 5000 mmf. 20 each—10,000 mmf. 1 1/2" Shpg. wt., 6 lbs. 18 L 912. No Money Down. NET....31.00

**HVK 160 Ceramic Capacitor Kit.** Kit includes 150 disc ceramics of the DDK series, all in a convenient single-draw steel cabinet. Values: DD30 (5 of ea.)—47, 100, 470, 1000, 2000 mmf; DD60 (5 of ea.)—82, 100, 500, 1000, 1500 mmf; DD16 750 of ea.)—4000, 5000, 6000, 7000, 7500, 8000, 10,000 mmf; DD16 (20 of each) 10,000 mmf. Size of cabinet, 4 1/2 x 6 1/2 x 1 1/2". 6 lbs. 18 L 913. No Money Down. NET....38.60

**D6K 200 Ceramic Capacitor Kit.** 200 DDK tubular ceramic capacitors in 1-draw steel cabinet—values from 5 to 10,000 mmf. of each included, except 10 or 15 each of the most popular values. Cabinet size, 4 1/2 x 6 1/2 x 1 1/2". Shpg. wt., 6 lbs. 18 L 914. No Money Down. NET....30.00

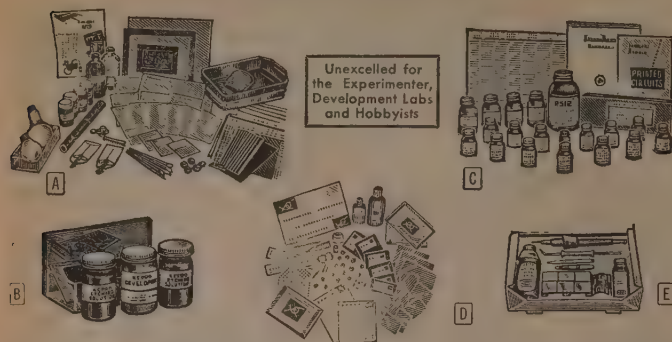
**Bargain Disc Ceramic Capacitor Assortment.** 20 Centralab MD disc ceramic "B-Kane" ranging from 15 to 5000 mmf in 600 or 1000 WVDC ratings. 1/2" dia. x 3/8" h. 1 lb. 58 L 448. ONLY





# Printed Circuit Kits and Packaged Circuits

## PRINTED CIRCUIT KITS



**A** **Kepro L-605A Printed Circuit Lab.** Covers wide range of printed circuit requirements from simple experimental circuits to short production runs. Kit contains: 15 assorted, photosensitized, copper-clad phenolic XXXP boards; 4 unsensitized boards; developing tray; etching tray; flashlight; flood lamp; printing frame; layout kit; mechanical negative; etching and developing solution; paint resist and thinner; plastic and aluminum trays; eyeclet assortment; cleaning pad; complete instructions plus descriptive literature. Heavy-duty processing equipment—handles boards up to 70 sq. inches in size. Shpg. wt., 21 lbs. **11 L 105. No Money Down. NET...\$34.05**

**B** **Kepro P-101A Professional Kit.** Offers professional photo-engraving quality. Contains: 3 sheets of sensitized phenolic board; 2 sheets of mechanical negatives; aluminum developing tray; plastic etching tray; 1 cleaning pad; 1 bottle of developer; 2 bottles of etch solution; 1 print glass; 2 frame clamps; and instructions. Shpg. wt., 3 lbs. **11 L 109. NET...\$5.73**

**Kepro S-101A Standard Kit.** (Not illustrated). An economy etching kit designed to use in development of a circuit pattern. An ideal kit for the beginner. Contains: 3 unsensitized copper-clad phenolic boards; 1 bottle etching resist; 1 package assorted tapes and terminals; 1 brush; 1 cleaning pad; 1 bottle etching solution; and instructions. Wt., 1 1/2 lbs. **11 L 119. NET...\$3.87**

### G-C PRINTED CIRCUIT REPAIR KIT

**E** **Model 683.** Save time and minimize replacement of printed circuit components with this handy repair kit. Permits quick repair jobs on resistors, capacitors, coils, wiring, solder, etc., lugs, copper foil, etc.—a valuable service aid. Kit includes: foil; solder washers; solder; "solder ease" tool for tightening contacts, etc.; fiberglass brush; 6 oz. spray can of silicone dots; lugs; solvent for removing solder; tweezers; Ungar soldering iron; instructions. Shpg. wt., 1 lb. **11 L 138. List, \$13.95. NET...\$9.31**

### KEPRO PHOTO LAYOUT KIT

**Model PL-2A.** (Not illus.) Ends the necessity of inking and lettering by use of mechanical negative materials and pressure sensitive tapes, dots, letters, and numerals. Layout time required is less than half of that needed for conventional methods. Errors in artwork are easily corrected without destroying original work. Materials may be used directly as negative. Contents: One card each of 1/4" tape dots, 1/2" tape strips, 1/2" tape strips, and assorted sizes letters and numerals; 1 acetate sheet; 1 mechanical negative; 2 graph papers; instructions and data. Wt., 14 oz. **11 L 139. NET...\$3.87**

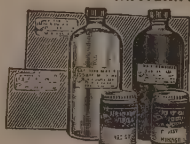
### KEPRO NAMEPLATE & PANEL KIT

**Model NP803A.** Equipment for making nameplates, dials, panel overlays, meter faces, etc. Excellent for short-run production and prototype use. Includes: two 8x10" sheets of sensitized aluminum, three sizes of letters and numerals, film, developer, printing glass, and instructions. Shpg. wt., 1 lb. **11 L 144. NET...\$6.55**

**C** **Micro-Circuits S21 Kit.** Lets you create all kinds of miniature-sized electronic equipment. Make resistors, capacitors, connecting wires and many other components. Kit also allows you to paint your own radio circuit and make repairs on printed circuits. Includes: brush; silver-conducting paint; low, medium, high and very high resistance paints; insulating lacquer; solvent; brush cleaner; the manual, "Design and Repair of Printed Circuits," plus other literature. Wt., 1 1/4 lbs. **11 L 146. NET...\$17.75**

**D** **Techniques S100 Kit.** Ready-to-use, pre-sensitized copper-clad laminate—cuts time in making prototype printed circuits. Kit contains: 20 pieces of single and double-clad XXXP and epoxy fiberglass laminates in assorted sizes, pre-sensitized and uncoated; 20 assorted tube and transistor sockets; 2 rolls of tape resist strip 1/8" and 1/4" wide; 200 die-cut tape circuits; 1 bottle of resist and brush; resist pen; eyeclets and terminals; No. 51 drill; layout paper; exposure clamp; etching solutions; trays; instructions. Wt., 3 1/2 lbs. **11 L 145. No Money Down. NET \$29.95**

### KEPRO PRINTED CIRCUIT MATERIALS



A selection of quality printed circuit materials either for replacement use in Kepro P kits or for those currently engaged in printed circuit development. Have all the materials you need for copper coating. All sheets have foil on both sides, except which have coating on one side only. Av. shpg. wt. of phenolic sheets: 3 oz., 2 oz. solutions, 6 oz.; pint solutions, 3 lbs.

### XXXX 1/4" PHENOLIC SHEETS

| Stock No. | Mfr's Type | Description      | Size   | NET EACH |
|-----------|------------|------------------|--------|----------|
| 11 L 649  | PI-1212    | Unsensitized     | 12x12" | 2.35     |
| 11 L 655  | P2-1212    | Unsensitized     | 12x12" | 3.03     |
| 11 L 656  | SI-33      | Light sensitive* | 3x3"   | .44      |
| 11 L 657  | SI-36      | Light sensitive* | 3x6"   | .69      |
| 11 L 658  | SI-66      | Light sensitive* | 6x6"   | 1.27     |
| 11 L 659  | SI-1212    | Light sensitive* | 12x12" | 4.68     |
| 11 L 660  | SI-710     | Light sensitive* | 7x10"  | 2.50     |
| 11 L 661  | SI-33      | Light sensitive  | 3x3"   | .59      |
| 11 L 662  | SI-36      | Light sensitive  | 3x6"   | .99      |
| 11 L 663  | SI-66      | Light sensitive  | 6x6"   | 1.82     |
| 11 L 664  | SI-1212    | Light sensitive  | 12x12" | 6.59     |
| 11 L 665  | SI-710     | Light sensitive  | 7x10"  | 3.52     |

### NEW G-10 1/4" GLASS EPOXY SHEETS

|          |          |                  |        |       |
|----------|----------|------------------|--------|-------|
| 11 L 666 | PI-1212G | Unsensitized*    | 12x12" | 6.95  |
| 11 L 667 | P2-1212G | Unsensitized*    | 12x12" | 7.79  |
| 11 L 668 | SI-33G   | Light sensitive* | 3x3"   | .99   |
| 11 L 669 | SI-36G   | Light sensitive* | 3x6"   | 1.43  |
| 11 L 670 | SI-1212G | Light sensitive* | 12x12" | 9.71  |
| 11 L 671 | SI-33G   | Light sensitive  | 3x3"   | 1.30  |
| 11 L 672 | SI-36G   | Light sensitive  | 3x6"   | 2.08  |
| 11 L 673 | SI-1212G | Light sensitive  | 12x12" | 14.15 |

### CHEMICALS

|          |       |                  |       |      |
|----------|-------|------------------|-------|------|
| 11 L 674 | R-2   | Paint resist     | 2 oz. | .59  |
| 11 L 675 | T-2   | Resist thinner   | 2 oz. | .49  |
| 11 L 676 | D-EPT | Developing sol.  | 1 pt. | 1.03 |
| 11 L 677 | E-1PT | Etching solution | 1 pt. | .83  |

## CENTRALAB PACKAGED ELECTRONIC CIRCUITS (PEC)



Complete, printed electronic circuits—with resistor capacitors, and in some cases, inductors. Ideal for the replacement of entire circuit sections in radio and TV sets. The printed-circuit wiring and all components are bound to a ceramic base and sealed against moisture, temperature change and physical shock. These dependable sub-assemblies are widely used in original equipment applications—especially in TV chassis. Excellent for use by experimenters and those engaged in new design. Offer space-saving features of miniaturization as well as circuit stability at very low cost. All types listed are standard throughout the electronics industry, always stocked easily replaced. Designed for quick mounting. Only durable, quality components used. As shown, 2 oz.

**19 L 893. PC-6 Packaged Electronic Circuit Guide.** Contains complete data. **NO CHARGE ON RETURN.**

| No.      | Type   | Description           | NET  |
|----------|--------|-----------------------|------|
| 11 L 147 | PC-50  | Diode Load Filter     | .68  |
| 11 L 148 | PC-51  | Diode Load Filter     | .68  |
| 11 L 150 | PC-70  | Triode Couplate       | .68  |
| 11 L 151 | PC-71  | Triode Couplate       | .68  |
| 11 L 152 | PC-80  | Triode Couplate       | .68  |
| 11 L 153 | PC-81  | Triode Couplate       | .68  |
| 11 L 154 | PC-90  | Pentode Couplate      | .99  |
| 11 L 155 | PC-91  | Pentode Couplate      | .99  |
| 11 L 166 | PC-92  | Pentode Couplate      | .99  |
| 11 L 156 | PC-100 | Vertical Integrator   | 1.00 |
| 11 L 157 | PC-101 | Vertical Integrator   | 1.00 |
| 11 L 158 | PC-104 | Vertical Integrator   | .77  |
| 11 L 159 | PC-105 | Vertical Integrator   | .77  |
| 11 L 158 | PC-150 | Audio/Det Couplate    | .99  |
| 11 L 170 | PC-151 | Audio/Det Couplate    | .99  |
| 11 L 359 | PC-154 | Audio/Det Couplate    | .99  |
| 11 L 360 | PC-157 | Audio/Det Couplate    | .99  |
| 11 L 361 | PC-158 | Audio/Det Couplate    | .99  |
| 11 L 362 | PC-159 | Audio/Det Couplate    | .99  |
| 11 L 171 | PC-160 | Pentode/Det Couplate  | 1.20 |
| 11 L 172 | PC-165 | Pentode/Det Couplate  | 1.20 |
| 11 L 380 | PC-263 | Sync Takeoff Couplate | .99  |



### NEW PC-40 KIT

Centralab's new printed electronic circuit assembly. Consists of sturdy steel cabinet and the assortment of PEC units. **2-PC-81, 2-PC-91, 10-PC-100, 5-PC-101, 2-PC-104, 2-PC-105, 2-PC-106, 5-PC-150, 2-PC-151, 2-PC-152, 2-PC-159, 2-PC-160, and 2-PC-165.** Each of the quantities of PEC units described here is packaged in transparent plastic envelope (see descriptions in table above). Cabinet has blue, baked enamel finish. Drawer has blue, baked enamel finish. **11 L 678. No Money Down. NET...\$35.45**

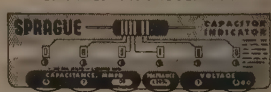
### CENTRALAB 4-STAGE PACKAGED AMPLIFIER

An ultra-miniature, 4-stage unit for use where space is extremely small, high-gain audio amplifier is needed. Has 73 db gain (minimum) at 1 kc. Noise, 30 db below signal with 25 mv input. Frequency response, 2-5 db down at 3 kc; output, up to 1/2 mv. Operates from a 1.35 v. mercury battery. Thoroughly sealed to prevent mechanical and atmospheric damage. 1/2" diameter. 1 1/2" high. Shpg. wt., 4 oz. **11 LC 298. No Money Down. NET...\$45.00**

### PRINTED CIRCUIT BOOK

**PRINTED CIRCUITS.** By Morris Moser (Gernsback). Thoroughly covers printed circuits and miniature equipment. Chapters include: Techniques And Materials; Repair; Printed-Circuit And Subminiature Assemblies. Illustrated. 224 pages. 5 1/2"x8 1/2". **39 K 279. Postpaid in U.S.A. \$2.90**

### CAPACITOR INDICATOR

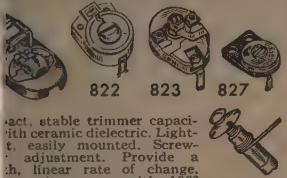


**Type C-751.** Reads color codes directly in capacitance, tolerance, and voltage. Wt., 2 oz. **37 L 076. NET...\$2.10**



## CENTRALAB CERAMIC CAPACITORS

### ERAMIC-DIELECTRIC TRIMMERS



act. stable trimmer capacitor with ceramic dielectric. Light adjustment. Provide a linear rate of change in capacity range with 180° on. Balanced rotor and spring pressure for excellent mechanical stability. even conditions of heavy vibration. Silver is on stator and rotor, which make contact on optically ground surface to eliminate air. All types rated at 600 WVDC. Power loss less than 0.02% at 1 m. Types 820 ceramic base, 822 and 823 statite base, phenolic base, 829 are tubular ceramic (mounting screw and nut) replace Type 820-E is less bracket. Letter N in Type indicates negative temperature coefficient. Z in type No. indicates zero temperature coefficient. \*Body length. Av. shpg. wt., 1 oz.

#### TYPES 820 AND 822

| ck  | Mfr's Type | Mmf Range | Base Size    | NET EACH |
|-----|------------|-----------|--------------|----------|
| 393 | 820-B      | 5-20      |              |          |
| 484 | 820-C      | 7-35      | 3/4x2 1/2"   | .78      |
| 690 | 820-E      | 35-55     |              |          |
| 650 | 822-DN     | 2-6       |              |          |
| 125 | 822-BN     | 4-30      |              |          |
| 125 | 822-CN     | 4.5-25    | 2 1/2x3 1/4" | 1.05     |
| 125 | 822-DN     | 7-45      |              |          |
| 123 | 822-AN     | 8-50      |              |          |
| 653 | 822-EZ     | 1-5.7     |              |          |
| 129 | 822-CZ     | 2-7.5     |              |          |
| 126 | 822-BZ     | 2.5-13    | 2 1/2x3 1/4" | 1.05     |
| 64  | 822-EZ     | 1-12      |              |          |
| 122 | 822-AZ     | 4.5-25    |              |          |

#### TYPES 823, 827 AND 829

| ck  | Mfr's Type | Mmf Range | Base Size    | NET EACH |
|-----|------------|-----------|--------------|----------|
| 510 | 823-AN     | 20-125    |              |          |
| 513 | 823-AN     | 12-62     | 1 1/2x1 1/2" | 3.60     |
| 516 | 827-A      | 2-5.7     |              |          |
| 517 | 827-B      | 3-5.12    |              |          |
| 518 | 827-C      | 6-30      | 1 1/2x3 1/4" | .75      |
| 519 | 827-D      | 7-35      |              |          |
| 400 | 829-3      | 5-3       | 1 1/2"       |          |
| 401 | 829-4      | 1-10      | 1 1/2"       |          |
| 402 | 829-6      | 1-6       | 1 1/2"       | .30      |
| 403 | 829-7      | 1-7.5     | 3/4"         |          |
| 404 | 829-10     | 1.5-10    | 3/4"         |          |

## VO-KAP UNIVERSAL CAPACITOR

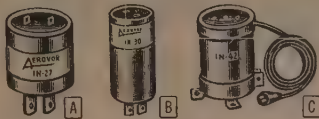
VO-T-207. High-voltage 0 ceramic capacitor set of attachable terminals. Ideal for service as—provides maximum range with a minimum variety. Capacitance mfm. Rated 20,000 vdc; 35,000 volts test. Molded die insulation. High-K ceramic insulator. Rugged, threaded-hole terminal studs. Resistance—20% to +50%. Size, 1" dia. x 1/2" h. Shpg. wt., 5 oz. .016. NET. 1.35

## "RAGUE" "HYPASS" CAPACITORS

through VHF by capacitors. Install via. 48P18 for vol-regulator. \*Screw mounting. Vdc. 2,000. mfg. Wt., 2 oz.

| ck  | Type  | Mfd. | Amps. | WVDC | Size         | NET  |
|-----|-------|------|-------|------|--------------|------|
| 688 | 48P18 | 5    | 40    | 50   | 1 1/4x1 1/2" | 2.23 |
| 970 | 48P18 | 1    | 20    | 250+ | 1 1/4x1 1/2" | 1.53 |
| 685 | 48P18 | 1    | 20    | 600  | 1 1/4x1 1/2" | 1.53 |
| 683 | 48P18 | 002  | 15    | 600  | 1 1/4x1 1/2" | 1.26 |
| 971 | 46P8  | 005  | 15    | 600  | 3/4x1 1/2"   | .26  |
| 972 | 47P6  | 01   | 20    | 600  | 3/4x1 1/2"   | .39  |
| 689 | 80P18 | 005  | 20    | 600  | 1 1/4x1 1/2" | .41  |
| 974 | 47P13 | 01   | 20    | 1000 | 3/4x1 1/2"   | .53  |
| 992 | 47P14 | 005  | 20    | 2500 | 1 1/4x1 1/2" | .71  |
| 993 | 47P15 | 01   | 20    | 5000 | 1 1/4x1 1/2" | .82  |
| 697 | 47P16 | 002  | 20    | 2500 | 1 1/4x1 1/2" | 1.88 |

## AEROVOX INTERFERENCE FILTERS



**A Type IN-27.** Plug-in unit for slight interference; electric shavers, etc. Diameter, 1 1/2". 1 1/2" long. Shpg. wt., 5 oz. 70 L 096. List, \$1.50. NET. 88c

**Type IN-28.** Not illustrated. For use in applications where ground is at a considerable distance. Provides most efficient filtering action when mounted on appliance causing interference. Supplied with convenient mounting bracket. Similar to Fig. A. Diameter, 1 1/2"; length, 2". Wt., 8 oz. 70 L 097. List, \$2.00. NET. 1.18

**B Type IN-30.** Popular, highly-effective plug-in unit for variable noise sources; cash registers, mixers, shavers, etc. Diameter, 1 1/2". 3" long. Shpg. wt., 7 oz. 70 L 098. List, \$2.50. NET. 1.47

**C Type IN-42.** Heavy-duty unit for use where serious interference is present from power transmission lines, oil burners, refrigerators, drills, shavers, etc. Plugs into power line outlet. Appliance or Radio plugs into filter. With mounting ring. Rated 6 amps at 110-120 volts AC. Diameter, 2 1/2". 3 3/4" long. Shpg. wt., 1 lb. 70 L 099. List, \$7.50. NET. 4.41

**Type IN-105.** Rugged, low-impedance delta-connected capacitor. Designed to eliminate interference caused by fluorescent fixtures, electric drills, large motors, etc. Connects either across the line, or as a bypass from line to ground. Compact bathtub case. Size: 1 1/4x1 1/4" high. Shpg. wt., 6 oz. 70 L 307. List, \$1.75. NET. 1.03

**Type IN-106.** As above, but for use where many fluorescent fixtures are in use. Also for adding machines, mixers, fans, radio receivers, and sewing machines. Install inside equipment generating noise. One unit per fixture in series where power leads enter. Metal container with four stranded wires. 125v. AC or DC; 2.6 amps. 1 1/4x3 1/2" h. Shpg. wt., 6 oz. 78 L 308. List, \$3.80. NET. 2.23

## SPRAGUE NOISE FILTERS

**Type IF.** Compact, multi-section filters for suppressing man-made radio and TV interference. Small and completely self-contained. For use on fans, drills, thermostats, arcing devices, etc. Rated up to 220 volts, AC or DC. Easily installed. Av. shpg. wt., 8 oz.

| Stock No. | Mfr's Type | Fig. | Size         | Sections | NET EACH |
|-----------|------------|------|--------------|----------|----------|
| 70 L 105  | IF-21      | E    | 1x2 1/2"     | Dual     | 1.03     |
| 70 L 113  | IF-31      | D    | 1 1/2x2 1/2" | Single   | .68      |
| 70 L 112  | IF-37      | E    | 1x2 1/2"     | Triple   | 1.32     |

**Filter Types.** Specially designed chokes and coils. Connect in series with power supply lines of industrial interference-producing devices.

**Type IF-4.** Fig. F provides high attenuation at frequencies above 5 megacycles. Single-hole mounting. Rated at 115 v., AC or DC. Av. shpg. wt., 8 oz.

| Stock No. | Mfr's Type | Amps. | Fig. | Size             | NET EACH |
|-----------|------------|-------|------|------------------|----------|
| 70 L 092  | 4          | 20    | G    | 1 1/2x2 1/2"     | 8.70     |
| 70 L 094  | 4          | 20    | F    | 1" dia. x 1 1/2" | 1.79     |

## FEDTRO "TV TROUBLE TRAPPER"

Constant "K" type high-pass filter. Greatly reduces below 54 mc. Caused by easily attached to the antenna terminals of any TV set. Eliminates Amateur signals, diathermy and other industrial interference, ignition noises, etc. Attenuation of undesired signals in excess of 40 db. Size 1 1/2x3 1/2x1". Shpg. wt., 12 oz. 70 L 184. NET. 1.20

## CORNELL-DUBILIER QUIETONE FILTERS

### Wired-in Types

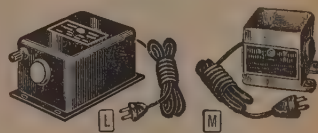


**H Type IF-7A.** Designed for permanent installation at the source of interference. Capacitive-inductive type filter suppresses severe interference to radios, TV, etc. Attaches to oil burners, electric motors in dishwashers, disposal units, washing machines, home workshop tools, etc. For use with appliances operating on single-phase 110-220 volt AC or DC. Rated 5 amps. 6x2x4". Shpg. wt., 9 lbs. 70 L 124. List, \$13.75. NET. 8.08

**J Type IF-54.** General-purpose capacitive-inductive filter for use in the home and in industry. Eliminates moderate interference from fluorescent fixtures, motors—any appliance drawing 2 amps or less from power line. Miniature size permits easy installation on almost any appliance. Rated 110-220 volts, AC or DC. Size 1 1/4x2 1/2". Wt., 8 oz. 70 L 114. List, \$2.50. NET. 1.47

**K Type IF-24.** Designed for permanent installation at the source of interference. For use with motors, fans, fluorescent fixtures, etc. Miniaturized for easy installation. Mounting strap has spade lug for easy connection. With flexible leads. For operation at 110 v., AC or DC. Wt., 0 lbs. 70 L 122. List, \$1.25. NET. 73c

### Plug-in Types



**L Type IF-18.** Highly effective all wave capacitive-inductive type of filter especially designed for suppression of severe interference. For use wherever ventilating or air conditioning units, washing machines, or machine tools interfere with reception. Bakelite case, 6x3 1/4x 2 1/2", with line cord and plug attached. Has binding post for attachment of ground wire, if used. Rated at 115 volts, AC-DC, 5 amps. Shpg. wt., 4 lbs. 70 L 120. List, \$9.20. NET. 5.41

**M Type IF-19.** Effective capacitive-inductive type filter for use wherever interference is severe. Can be used to eliminate interference from electric fans, diathermy machines, neon signs, washing machines, food mixers, calculating machines, etc. Mounting holes for permanent attachment to backboard, back of receiver, or any convenient location. Has terminal for ground connection. Rated 115 volts AC-DC, 5 amps. Bakelite case, 4x2 1/4x2 1/2". Shpg. wt., 1 1/2 lbs. 70 L 121. List, \$7.70. NET. 4.53

**Type IF-4.** Efficient, plug-in, cylindrical filter for suppression of medium intensity interference produced by fluorescent lighting fixtures, electric shavers, fans, food mixers, billing machines, and similar devices. Well suited for use with small receivers such as AC-DC midrange sets, portable TV sets, etc. Filter plugs directly into wall; appliance or receiver plugs into filter. Rated at 115 volts, AC-DC, 5 amps. 1 1/2" dia., 2" long. Shpg. wt., 5 oz. 70 L 125. List, \$1.25. NET. 73c

**Type IF-6.** Convenient plug-in filter designed for elimination of moderate interference. Especially suitable for suppression of interference caused by fluorescent lights, electric shavers, and similar devices. Connects between power line and appliance, or between power line and receiver. Rated at 115 volts, AC-DC, 5 amps. 1 1/2" dia., 2" long. Shpg. wt., 6 oz. 70 L 126. List, \$1.95. NET. 1.15

# Stancor TV Transformers



## EXACT-REPLACEMENT TV HORIZONTAL OUTPUT TRANSFORMERS

A complete line of top-quality replacement flyback transformers for all standard television receivers. Every transformer faithfully duplicates all of the electrical and physical characteristics of the original manufacturer's unit. Manufacturer's own specifications are used; performance is

identical in every respect. No alterations are required in the existing circuit or chassis for installation. Carefully constructed of high-quality materials to assure exceptional dependability. \*For 77J1 except where 6CD6 horizontal output tube is used. Av. shpg. wt., 1 lb.



### ADMIRAL

| Stock No. | Type   | Orig. Mr's Part No.                | NET  |
|-----------|--------|------------------------------------|------|
| 64 G 210  | A-8128 | 79C23-3, 79C28-1                   | 6.88 |
| 64 G 211  | A-8133 | 79C30-1/-3                         | 9.89 |
| 64 G 551  | A-8134 | 79C20-2/-4, 79C38-1, 79D38-1       | 8.96 |
| 64 G 213  | A-8254 | 79C60-1                            | 5.59 |
| 64 G 214  | A-8255 | 79C20-2/-3                         | 6.49 |
| 64 G 560  | A-8265 | 79C70-1                            | 7.64 |
| 64 G 572  | A-8135 | 79D41-1/-2                         | 7.35 |
| 64 G 212  | A-8253 | 79D48-1                            | 7.06 |
| 64 G 459  | A-8292 | 79D65-1                            | 7.17 |
| 61 G 204  | HO-301 | 79D65-2/-4                         | 7.79 |
| 61 G 205  | HO-304 | 79D77-2                            | 5.31 |
| 63 G 290  | HO-317 | 79B77-6, 79E77-6                   | 5.31 |
| 63 G 291  | HO-318 | 79B77, 79D77, 79D77-7/-22, 79E77-7 | 5.31 |
| 63 G 292  | HO-319 | 79D83-1/-2                         | 6.54 |

### CBS-COLUMBIA

|          |        |                   |      |
|----------|--------|-------------------|------|
| 64 G 331 | A-8230 | 10104/07/08/10/35 | 7.35 |
| 64 G 332 | A-8231 | 101368/37/38/59   | 7.35 |
| 64 G 333 | A-8283 | 12000841/51       | 6.92 |
| 63 G 464 | A-8284 | 12001051/91       | 6.53 |

### CROSELEY

|          |        |                        |      |
|----------|--------|------------------------|------|
| 64 G 222 | A-8241 | 157820                 | 6.36 |
| 64 G 223 | A-8248 | 154069/-1, 154990/-2/3 | 9.37 |
| 64 G 208 | A-8245 | 158481-1/-2/-5         | 7.57 |

### EMERSON

|          |        |                          |      |
|----------|--------|--------------------------|------|
| 64 G 221 | A-8131 | 738047/48/53             | 5.87 |
| 64 G 268 | A-8138 | 738079/84                | 6.53 |
| 64 G 333 | A-8232 | 738067/68/69/73/74/75/82 | 7.35 |
| 61 G 206 | HO-294 | 738103/109               | 6.53 |
| 61 G 208 | HO-296 | 738106/107/111           | 7.35 |
| 61 G 209 | HO-296 | 738119/122/128/129/140   | 7.50 |
| 61 G 247 | HO-309 | 738138/A                 | 5.88 |
| 61 G 248 | HO-310 | 738142                   | 7.06 |
| 61 G 249 | HO-311 | 738155                   | 5.15 |
| 61 G 250 | HO-312 | 738160                   | 6.47 |
| 61 G 251 | HO-313 | 738162                   | 5.27 |
| 61 G 252 | HO-314 | 738169                   | 4.21 |

### GENERAL ELECTRIC

|          |         |                   |      |
|----------|---------|-------------------|------|
| 64 G 546 | A-8130* | 77J1              | 7.17 |
| 64 G 577 | A-8262  | RT-103/141/-143-3 | 6.91 |
| 63 G 466 | A-8288  | RT-149/-1         | 6.17 |
| 63 G 467 | A-8289  | RT-150/-3         | 6.31 |
| 63 G 471 | A-8290  | RT-160/-5         | 6.05 |
| 63 G 468 | HO-252  | RT-165/-5         | 6.47 |
| 63 G 469 | HO-253  | RT-175/87         | 6.47 |
| 63 G 470 | HO-254  | RT-179/88         | 6.47 |
| 61 G 209 | HO-298  | RT-207            | 6.69 |
| 61 G 210 | HO-299  | RT-208            | 7.06 |

### HOFFMAN

| Stock No. | Type   | Orig. Mr's Part No. | NET  |
|-----------|--------|---------------------|------|
| 61 G 211  | A-8137 | 5035                | 7.00 |
| 61 G 212  | HO-285 | 5158-A              | 5.64 |
| 63 G 976  | HO-287 | 5144/45/46/48/49/55 | 7.18 |

### MAGNAVOX

|          |        |                                            |      |
|----------|--------|--------------------------------------------|------|
| 63 G 472 | A-8293 | 360593/-2, 360552/-1, 360600/-1, 360577/-1 | 7.60 |
| 63 G 473 | A-8294 | 360600/-1                                  | 7.06 |
| 63 G 474 | A-8295 | 360614/-1, 360623/-1                       | 7.06 |
| 61 G 253 | HO-331 | 320055-1/61-1/-3                           | 7.10 |
| 61 G 254 | HO-332 | 360580-1/604-1                             | 6.38 |
| 61 G 255 | HO-333 | 360700-1/-2                                | 5.74 |
| 61 G 256 | HO-334 | 320811-1                                   | 5.19 |
| 61 G 257 | HO-335 | 360739-1/779-1                             | 6.61 |

### MOTOROLA

|          |        |                         |      |
|----------|--------|-------------------------|------|
| 64 G 325 | A-8224 | 24C711265/A, 24C721290  | 9.11 |
| 64 G 279 | A-8239 | 24K792753, 24K701009    | 6.98 |
| 64 G 326 | A-8225 | 24K712131/C, 24K721517C | 9.11 |
| 63 G 971 | HO-280 | 24K739284               | 8.28 |
| 63 G 972 | HO-281 | 24K733002/03/04         | 8.82 |
| 63 G 973 | HO-282 | 24K7336487              | 8.37 |
| 61 G 213 | HO-293 | 24C736488               | 8.57 |
| 61 G 127 | HO-336 | 24C739283               | 6.43 |

### MUNTZ

|          |        |                |      |
|----------|--------|----------------|------|
| 64 G 281 | A-8129 | TO-0024        | 7.17 |
| 64 G 559 | A-8132 | TO-0031        | 8.82 |
| 64 G 289 | A-8226 | TO-0036        | 7.06 |
| 63 G 436 | A-8291 | TO-0039        | 7.06 |
| 64 G 278 | A-8261 | C9.255-1/-2/-E | 6.47 |

### PHILCO

|          |        |                       |      |
|----------|--------|-----------------------|------|
| 63 G 438 | HO-277 | 32-8465-2, 32-8509/-2 | 9.41 |
| 64 G 323 | A-8222 | 32-8535/34            | 7.42 |
| 63 G 321 | A-8220 | 32-8535/34            | 8.22 |
| 63 G 437 | HO-276 | 32-8624/-1            | 8.47 |

### PHILHARMONIC

|          |        |                |       |
|----------|--------|----------------|-------|
| 64 G 573 | A-8136 | 80-263/-265/-2 | 17.47 |
|----------|--------|----------------|-------|

### RCA

|          |        |                     |      |
|----------|--------|---------------------|------|
| 64 G 783 | A-8119 | 211T5               | 7.00 |
| 64 G 784 | A-8127 | 211T1/T3            | 6.88 |
| 64 G 785 | A-8252 | 225T1               | 6.53 |
| 63 G 441 | HO-256 | 235T1               | 6.47 |
| 64 G 789 | A-8235 | 75519, 75585, 76381 | 5.38 |
| 64 G 787 | A-8233 | 76430, 76795        | 7.35 |
| 64 G 788 | A-8234 | 76501               | 4.68 |
| 64 G 221 | A-8131 | 4951                | 5.87 |
| 61 G 214 | HO-289 | 924436, 927440-3    | 6.24 |
| 61 G 215 | HO-290 | 104481, 973432-1    | 6.05 |
| 64 G 786 | A-8244 | 78201, 78810        | 6.61 |

### RCA (Cont'd)

|          |        |                                       |      |
|----------|--------|---------------------------------------|------|
| 63 G 442 | HO-272 | 972914-1, 103092                      | 6.5  |
| 61 G 258 | HO-320 | 10389 (50-94292-1)                    | 5.6  |
| 61 G 259 | HO-321 | 104876 (972942-1), 106663 (972-942-2) | 7.17 |
| 61 G 260 | HO-322 | 104309 (972401-3), 106533 (973908-1)  | 7.06 |

### SILVERTONE

|          |        |                   |      |
|----------|--------|-------------------|------|
| 64 G 331 | A-8230 | 10104/07/08/10/35 | 7.35 |
| 64 G 332 | A-8231 | 101368/37/39      | 7.35 |
| 63 G 969 | A-8252 | N24989            | 6.5  |
| 61 G 216 | HO-374 | T80-326/336       | 6.7  |
| 61 G 261 | HO-377 | T80-368/390/411   | 4.3  |

### SPARTAN

|          |        |                  |     |
|----------|--------|------------------|-----|
| 63 G 974 | HO-284 | PC-700-10/6-12/F | 7.0 |
| 61 G 262 | HO-327 | PC-70015         | 6.3 |
| 61 G 263 | HO-328 | PC-70019         | 7.6 |
| 61 G 264 | HO-329 | PC-70025, 70022  | 6.0 |
| 61 G 265 | HO-330 | PC-70036         | 6.0 |

### SYLVANIA

|          |        |                |     |
|----------|--------|----------------|-----|
| 64 G 328 | A-8227 | 241-0003       | 5.5 |
| 64 G 329 | A-8228 | 241-0005/-0006 | 5.5 |
| 63 G 443 | A-8251 | 241-0011       | 6.4 |
| 61 G 258 | HO-320 | 241-0046       | 5.6 |

### TRAVLER

|          |        |       |     |
|----------|--------|-------|-----|
| 61 G 266 | HO-323 | TR-24 | 6.9 |
| 61 G 267 | HO-324 | TR-27 | 6.5 |
| 61 G 268 | HO-325 | TR-28 | 6.9 |

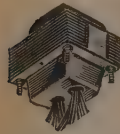
### WESTINGHOUSE

|          |        |                              |     |
|----------|--------|------------------------------|-----|
| 64 G 285 | A-8237 | V9904-1/-2, V10213-1         | 6.7 |
| 64 G 286 | A-8238 | V-10214-1, V-9904-2, V-10204 | 6.7 |
| 64 G 284 | A-8236 | V-1548-1/-2/-3/-4            | 7.6 |
| 61 G 269 | HO-339 | 493V00M02/3/4                | 8.8 |
| 61 G 270 | HO-340 | 493V00M03                    | 8.4 |

### ZENITH

|          |        |                                                                                        |     |
|----------|--------|----------------------------------------------------------------------------------------|-----|
| 64 G 287 | A-8267 | S-15911/12, 16556, S-17130/40, 17233, S-17245/265/435, S-17646/767/811, S-17927, 29087 | 7.0 |
| 64 G 288 | A-8268 | S-15015/202/709, S-15710, -16006, S-16191/204, S-17444/699/X, S-20866                  | 7.0 |

|          |        |                      |     |
|----------|--------|----------------------|-----|
| 64 G 289 | A-8269 | S-18288/537/902      | 7.0 |
| 64 G 290 | A-8270 | S-18567/890, S-19728 | 6.5 |
| 64 G 291 | A-8271 | S-19032/71           | 6.5 |
| 63 G 444 | HO-267 | S-20099              | 7.1 |
| 63 G 445 | HO-268 | S-23049              | 6.0 |
| 63 G 447 | HO-270 | S-23049              | 6.0 |
| 63 G 448 | HO-271 | S-23438              | 5.9 |
| 61 G 217 | A-8276 | S-22154              | 5.9 |



### TELEVISION POWER TRANSFORMERS

Quality power transformers for replacement use in standard TV receivers. Designed to supply high voltage (plates), rectifier and filament voltages. Plate windings are C.T. Leads are stripped, tinned and bent to meet B.I.A. standards. With copper shielding band to reduce external magnetic field. For 117 v. 60 cycle AC, except Type P-5059, which has primary designed for 117/107 v. operation. Types P-8355 and P-8356 are similar to Fig. A on opposite page.

| Stock No. | Mr's Type | Plate V | Rect. V | Filaments V | Overall Size          | Wt. Lbs. | NET EACH |
|-----------|-----------|---------|---------|-------------|-----------------------|----------|----------|
| 63 G 429  | P-5059    | 675     | 200     | 5           | 4 1/2 x 3 1/2 x 4 1/2 | 9 1/2    | 13.06    |
| 63 G 430  | P-6315    | 740     | 275     | 5           | 4 1/2 x 3 1/2 x 4 1/2 | 9 1/2    | 13.68    |
| 64 G 576  | P-8159    | 720     | 290     | 2 1/8       | 5 1/2 x 3 1/2 x 4 1/2 | 10       | 17.29    |
| 64 G 577  | P-8160    | 720     | 290     | 3           | 4 1/2 x 3 1/2 x 4 1/2 | 10       | 16.23    |
| 64 G 578  | P-8164    | 600     | 225     | 3           | 4 1/2 x 3 1/2 x 4 1/2 | 7 1/2    | 5.88     |
| 64 G 579  | P-8165    | 680     | 330     | 5           | 6 1/2 x 6 1/2 x 6 1/2 | 11 1/2   | 15.88    |
| 64 G 580  | P-8166    | 560     | 400     | 4.5         | 6 1/2 x 6 1/2 x 6 1/2 | 13       | 19.73    |
| 64 G 583  | P-8169    | 760     | 220     | 5           | 6 1/2 x 6 1/2 x 6 1/2 | 10 1/2   | 16.77    |
| 63 G 431  | P-8170    | 760     | 220     | 5           | 6 1/2 x 6 1/2 x 6 1/2 | 10 1/2   | 16.31    |
| 64 G 599  | P-8171    | 750     | 225     | 5           | 6 1/2 x 6 1/2 x 6 1/2 | 10 1/2   | 17.64    |
| 64 G 597  | P-8172    | 720     | 200     | 3 1/2       | 4 1/2 x 3 1/2 x 4 1/2 | 9        | 12.12    |
| 64 G 613  | P-8331    | 620     | 240     | 3           | 4 1/2 x 3 1/2 x 4 1/2 | 9        | 12.12    |
| 64 G 415  | P-8333    | 590     | 225     | 5           | 4 1/2 x 3 1/2 x 4 1/2 | 10       | 14.93    |
| 64 G 416  | P-8334    | 550     | 305     | 8.5         | 5 1/2 x 3 1/2 x 4 1/2 | 13       | 16.46    |
| 64 G 417  | P-8335    | 600     | 325     | 8.5         | 5 1/2 x 3 1/2 x 4 1/2 | 13       | 17.00    |
| 64 G 418  | P-8337    | 540     | 337     | 8.25        | 5 1/2 x 3 1/2 x 4 1/2 | 8 1/2    | 14.09    |
| 64 G 421  | P-8339    | 650     | 255     | 5           | 4 1/2 x 3 1/2 x 4 1/2 | 12       | 13.93    |
| 64 G 422  | P-8340    | 710     | 270     | 5           | 5 1/2 x 3 1/2 x 4 1/2 | 12       | 18.40    |
| 64 G 424  | P-8342    | 730     | 260     | 5           | 5 1/2 x 3 1/2 x 4 1/2 | 13       | 17.57    |
| 63 G 428  | P-8352    | 580     | 240     | 5           | 4 1/2 x 3 1/2 x 4 1/2 | 8 1/2    | 13.50    |
| 63 G 272  | P-8355    | 570     | 250     | 5           | 3 1/2 x 3 1/2 x 3 1/2 | 6 1/2    | 11.59    |
| 63 G 273  | P-8356    | 540     | 260     | 5           | 3 1/2 x 3 1/2 x 3 1/2 | 6 1/2    | 10.95    |

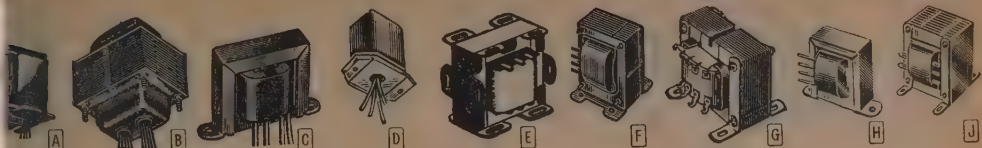
### VERTICAL DEFLECTION OUTPUT TRANSFORMERS

All are isolation transformer type except \* which is autotransformer type and \* which can be used either way. \* Copper shielding band around coil and core.

| Stock No. | Mr's Type | Pri. Ohms | Sec. Ohms | Size                  | Wt. Lbs. | NET EACH |
|-----------|-----------|-----------|-----------|-----------------------|----------|----------|
| 64 G 522  | A-8112    | 1300      | 10        | 2 1/2 x 3 1/2 x 1 1/2 | 1        | 2.94     |
| 64 G 523  | A-8113    | 700       | 12        | 2 1/2 x 3 1/2 x 1 1/2 | 1        | 3.09     |
| 64 G 502  | A-8115    | 600       | 7         | 3 1/2 x 2 1/2 x 2 1/2 | 1 1/2    | 5.24     |
| 64 G 547  | A-8123    | 1200      | 11        | 2 1/2 x 3 1/2 x 1 1/2 | 1 1/2    | 2.91     |
| 64 G 554  | A-8140    | 400       | 0.3       | 2 1/2 x 2 1/2 x 1 1/2 | 1 1/2    | 5.23     |
| 64 G 557  | A-8141    | 1650      | 4.5       | 2 1/2 x 3 1/2 x 2 1/2 | 1 1/2    | 4.17     |
| 61 G 289  | A-8142    | 540       | 10.5      | 2 1/2 x 3 1/2 x 2 1/2 | 2 1/2    | 5.04     |
| 61 G 290  | A-8145    | 540       | 14        | 2 1/2 x 3 1/2 x 2 1/2 | 2        | 4.20     |
| 61 G 291  | A-8146    | 375       | 10        | 2 1/2 x 3 1/2 x 1 1/2 | 1 1/2    | 2.97     |
| 64 G 473  | A-8148    | 375       | 6.5       | 2 1/2 x 3 1/2 x 1 1/2 | 1 1/2    | 3.37     |
| 63 G 977  | VO-103*   | 530       | 5.5       | 2 1/2 x 3 1/2 x 3 1/2 | 1 1/2    | 4.17     |
| 61 G 292  | VO-108    | 350       | 10.3      | 2 1/2 x 3 1/2 x 3 1/2 | 1 1/2    | 2.84     |
| 61 G 293  | VO-109*   | 1150      | 12        | 2 1/2 x 3 1/2 x 3 1/2 | 1 1/2    | 5.41     |
| 61 G 124  | VO-110    | 1670      | 7         | 2 1/2 x 3 1/2 x 2 1/2 | 1 1/2    | 2.82     |
| 61 G 125  | VO-111    | 1425      | 7.5       | 2 1/2 x 3 1/2 x 2 1/2 | 1 1/2    | 3.25     |
| 61 G 294  | VO-112    | 384       | 3.5       | 2 1/2 x 2 1/2 x 3 1/2 | 1 1/2    | 3.36     |
| 61 G 126  | VO-113    | 1425      | 19.7      | 2 1/2 x 3 1/2 x 1 1/4 | 1 1/2    | 2.89     |
| 61 G 126  | VO-114    | 420       | 6         | 2 1/2 x 3 1/2 x 1 1/2 | 1 1/2    | 2.89     |



# Stancor Transformers



## POWER TRANSFORMERS

**3 Volt Types.** All transformers have center-tapped 6.3 volt windings. PS-8415, PS-8416, PS-8417, PS-8418, PS-8419, PS-8420, PS-8421, PS-8422 and PA-8421. \*For 6AX5, 6X4, 6X5 and similar 6.3 ampere rectifiers, and for selenium rectifier. All are Figure B, except PS-8415 and PS-8416 are Figure A and PS-8417 has an extra coil winding (not center tapped), rated at 3 amperes. All primary ratings are for 117 volt, 60 cycle AC.

| k No. | Type    | Mfr's Type | Plate VCT | Ma  | 5V   | 6.3V                  | Size  | Wt. Lbs. | NET EACH |
|-------|---------|------------|-----------|-----|------|-----------------------|-------|----------|----------|
| 162   | PS-8415 | 125        | 15        | ... | .6A  | 2 1/2 x 1 1/2 x 2 1/2 | 2 1/2 | 2.32     |          |
| 178   | PA-8421 | 125        | 50        | ... | 1.0A | 2 1/2 x 1 1/2 x 2 1/2 | 1 1/2 | 3.76     |          |
| 216   | PS-8416 | 250        | 25        | ... | 2.0A | 3 1/2 x 2 1/2 x 3 1/2 | 2 1/2 | 2.79     |          |
| 177   | PS-8418 | 400        | 30        | ... | 1.5A | 3 1/2 x 2 1/2 x 3 1/2 | 2 1/2 | 4.70     |          |
| 154   | PM-8401 | 470        | 40        | 2A  | 2.0A | 3 1/2 x 2 1/2 x 3 1/2 | 2 1/2 | 5.65     |          |
| 176   | PS-8401 | 470        | 40        | 2A  | 2.0A | 3 1/2 x 2 1/2 x 3 1/2 | 2 1/2 | 5.42     |          |
| 170   | PM-8402 | 480        | 55        | 2A  | 2.0A | 3 1/2 x 2 1/2 x 3 1/2 | 2 1/2 | 5.53     |          |
| 177   | PS-8402 | 480        | 55        | 2A  | 2.0A | 3 1/2 x 2 1/2 x 3 1/2 | 2 1/2 | 5.58     |          |
| 177   | PS-8403 | 480        | 55        | 2A  | 2.0A | 3 1/2 x 2 1/2 x 3 1/2 | 2 1/2 | 5.53     |          |
| 215   | PS-8419 | 480        | 70        | ... | 3.0A | 3 1/2 x 2 1/2 x 3 1/2 | 2 1/2 | 5.41     |          |
| 167   | PM-8420 | 520        | 90        | ... | 4.0A | 3 1/2 x 2 1/2 x 3 1/2 | 3 1/2 | 6.56     |          |
| 168   | PS-8420 | 520        | 90        | ... | 4.0A | 3 1/2 x 2 1/2 x 3 1/2 | 3 1/2 | 6.29     |          |
| 171   | PM-8403 | 500        | 70        | 2A  | 2.5A | 3 1/2 x 2 1/2 x 3 1/2 | 3 1/2 | 6.23     |          |
| 178   | PS-8403 | 500        | 70        | 2A  | 2.5A | 3 1/2 x 2 1/2 x 3 1/2 | 3 1/2 | 6.23     |          |
| 179   | PS-8404 | 520        | 90        | 2A  | 3.0A | 3 1/2 x 2 1/2 x 3 1/2 | 3 1/2 | 6.91     |          |
| 160   | PM-8404 | 520        | 90        | 2A  | 3.0A | 3 1/2 x 2 1/2 x 3 1/2 | 3 1/2 | 6.91     |          |
| 183   | PS-8405 | 540        | 120       | 3A  | 3.5A | 3 1/2 x 2 1/2 x 3 1/2 | 5     | 9.01     |          |
| 183   | PS-8405 | 540        | 120       | 3A  | 3.5A | 3 1/2 x 2 1/2 x 3 1/2 | 5     | 9.01     |          |
| 133   | P-6358* | 600        | 65        | 2A  | 2.7A | 3 1/2 x 2 1/2 x 3 1/2 | 3 1/2 | 5.84     |          |
| 237   | PM-8423 | 600        | 90        | 2A  | 3.5A | 3 1/2 x 2 1/2 x 3 1/2 | 3 1/2 | 7.97     |          |
| 155   | PM-8407 | 650        | 55        | 2A  | 2.5A | 3 1/2 x 2 1/2 x 3 1/2 | 3 1/2 | 5.84     |          |
| 156   | PM-8409 | 650        | 90        | 2A  | 2.0A | 3 1/2 x 2 1/2 x 3 1/2 | 4 1/2 | 6.44     |          |
| 217   | PS-8406 | 650        | 40        | 2A  | 2.0A | 3 1/2 x 2 1/2 x 3 1/2 | 2 1/2 | 5.68     |          |
| 184   | PS-8407 | 650        | 55        | 2A  | 2.0A | 3 1/2 x 2 1/2 x 3 1/2 | 3 1/2 | 5.88     |          |
| 164   | PS-8408 | 680        | 70        | 2A  | 2.5A | 3 1/2 x 2 1/2 x 3 1/2 | 4     | 7.35     |          |
| 156   | PM-8408 | 680        | 70        | 2A  | 2.5A | 3 1/2 x 2 1/2 x 3 1/2 | 4     | 7.35     |          |
| 188   | PS-8409 | 700        | 90        | 2A  | 3.0A | 3 1/2 x 2 1/2 x 3 1/2 | 4 1/2 | 7.76     |          |
| 159   | PM-8410 | 720        | 120       | 3A  | 3.5A | 3 1/2 x 2 1/2 x 3 1/2 | 5 1/2 | 9.17     |          |
| 186   | PS-8410 | 720        | 120       | 3A  | 3.5A | 3 1/2 x 2 1/2 x 3 1/2 | 5 1/2 | 8.81     |          |
| 173   | PM-8411 | 750        | 150       | 3A  | 4.5A | 3 1/2 x 2 1/2 x 3 1/2 | 6     | 12.30    |          |
| 187   | PS-8411 | 750        | 150       | 3A  | 4.5A | 3 1/2 x 2 1/2 x 3 1/2 | 6     | 11.33    |          |
| 187   | PS-8412 | 800        | 200       | 3A  | 5.0A | 3 1/2 x 2 1/2 x 3 1/2 | 8 1/2 | 12.30    |          |
| 163   | PS-8412 | 800        | 200       | 3A  | 5.0A | 3 1/2 x 2 1/2 x 3 1/2 | 8 1/2 | 12.30    |          |
| 169   | PS-8414 | 1200       | 200       | 3A  | 5.0A | 4 1/2 x 2 1/2 x 4 1/2 | 8 1/2 | 14.46    |          |

## DEFLECTION YOKES

70° deflection picture tubes, except 3 for 50"; 400°. All have ferrite cores and cosine-wound distributed inductance for anti-astigmatic focusing. Molded coil forms automatically orient coils for minimum "crosstalk." Most units have orks and extra-long leads. Av. shpg. wt., 1 1/2 lbs.



| k No. | Type    | Horizontal         | Vertical           | NET   |
|-------|---------|--------------------|--------------------|-------|
| 538   | DY-1A   | 8.3 mh, 13.5 ohms  | 50 mh, 66 ohms     | 7.54  |
| 595   | DY-2A   | 10.3 mh, 14.5 ohms | 50 mh, 66 ohms     | 7.22  |
| 539   | DY-3A   | 8.5 mh, 14.5 ohms  | 50 mh, 52.5 ohms   | 7.22  |
| 590   | DY-9    | 13.5 mh, 17.5 ohms | 50 mh, 53.5 ohms   | 8.40  |
| 589   | DY-10A  | 30.0 mh, 45 ohms   | 3.5 mh, 3.5 ohms   | 7.22  |
| 596   | DY-11A  | 20 mh, 31 ohms     | 50 mh, 50 ohms     | 8.89  |
| 597   | DY-12A  | 30 mh, 41 ohms     | 50 mh, 50 ohms     | 8.01  |
| 481   | DY-13A† | 12.5 mh, 15 ohms   | 48 mh, 52 ohms     | 10.17 |
| 482   | DY-14A† | 20 mh, 15 ohms     | 35 mh, 42 ohms     | 7.78  |
| 371   | DY-15A  | 25 mh, 35 ohms     | 40 mh, 50 ohms     | 7.88  |
| 482   | DY-16A† | 20 mh, 26 ohms     | 44 mh, 45 ohms     | 9.17  |
| 487   | DY-21A  | 14.5 mh, 10 ohms   | 3.1 mh, 3.5 ohms   | 7.44  |
| 489   | DY-23A† | 20 mh, 27 ohms     | 45 mh, 43 ohms     | 8.53  |
| 496   | DY-25A† | 24 mh, 46 ohms     | 11 mh, 11 ohms     | 10.24 |
| 2498  | DY-27A† | 17.5 mh, 35.5 ohms | 12.3 mh, 13.5 ohms | 7.59  |
| 272   | DY-28A  | 24 mh, 36 ohms     | 3.2 mh, 3.4 ohms   | 6.91  |
| 277   | DY-29A  | 24 mh, 36 ohms     | 3.2 mh, 3.4 ohms   | 7.01  |
| 273   | DY-30A  | 24 mh, 36 ohms     | 3.2 mh, 3.4 ohms   | 7.25  |
| 274   | DY-31A† | 24 mh, 44.2 ohms   | 42 mh, 42 ohms     | 8.65  |
| 275   | DY-32A† | 24 mh, 44.2 ohms   | 42 mh, 42 ohms     | 8.53  |
| 276   | DY-33A† | 30.5 mh, 34 ohms   | 43 mh, 50 ohms     | 6.86  |
| 277   | DY-34A† | 30 mh, 45 ohms     | 47 mh, 42 ohms     | 7.35  |
| 278   | DY-35A† | 20 mh, 28 ohms     | 45 mh, 45 ohms     | 6.89  |
| 279   | DY-36A† | 24 mh, 43 ohms     | 40 mh, 37 ohms     | 9.08  |
| 280   | DY-37A† | 20 mh, 28 ohms     | 45 mh, 45 ohms     | 8.13  |
| 281   | DY-38A† | 20 mh, 34 ohms     | 34 mh, 34 ohms     | 7.78  |
| 282   | DY-39A† | 13 mh, 22 ohms     | 40 mh, 41 ohms     | 7.94  |
| 283   | DY-40A† | 12 mh, 17 ohms     | 40 mh, 39 ohms     | 9.70  |
| 284   | DY-41A† | 13.3 mh, 20 ohms   | 41 mh, 54 ohms     | 8.64  |
| 285   | DY-42A† | 30.4 mh, 47.2 ohms | 34 mh, 34 ohms     | 8.54  |
| 286   | DY-43A† | 24 mh, 31 ohms     | 3.3 mh, 3.0 ohms   | 11.04 |
| 287   | DY-44A† | 18.5 mh, 43 ohms   | 34 mh, 34 ohms     | 8.82  |
| 288   | DY-45A† | 18.6 mh, 35 ohms   | 14.8 mh, 13.8 ohms | 12.97 |
| 120   | DY-4A   | 8.2 mh, 19.7 ohms  | 41 mh, 72 ohms     | 8.00  |
| 121   | DY-48A  | 14 mh, 34 ohms     | 29 mh, 60 ohms     | 6.76  |
| 122   | DY-49A  | 44 mh, 110 ohms    | 38 mh, 80 ohms     | 8.4   |
| 123   | DY-50A  | 12 mh, 28 ohms     | 33 mh, 83 ohms     | 9.29  |

## FILTER CHOKES

All ratings are with maximum DC in winding. †Fig. G with leads. All are rated 1500 v. rms. except \*2000, †3000, †2500. Types C2690 and C2691 have dual windings; first rating series, second rating parallel.

| Stock No. | Type   | Fig. | Hys.    | Ma.    | Ohms     | Size                  | Lbs.  | NET   |
|-----------|--------|------|---------|--------|----------|-----------------------|-------|-------|
| 64 G 057  | C1001† | C    | 10.5    | 110    | 225      | 2 1/2 x 2 1/2 x 1 1/2 | 1 1/2 | 3.52  |
| 64 G 056  | C1002  | C    | 15.0    | 75     | 400      | 2 1/2 x 3 1/2 x 2 1/2 | 1 1/2 | 2.82  |
| 64 G 055  | C1003  | C    | 16.0    | 50     | 580      | 3 1/2 x 2 1/2 x 1 1/2 | 1 1/2 | 2.13  |
| 64 G 054  | C1080  | C    | 3.5     | 50     | 200      | 1 1/2 x 2 1/2 x 1 1/2 | 3/4   | 1.62  |
| 64 G 053  | C1279  | C    | 8.5     | 50     | 400      | 1 1/2 x 2 1/2 x 1 1/2 | 3/4   | 1.62  |
| 64 G 067  | C1355  | E    | 8.0     | 75     | 290      | 2 1/2 x 2 1/2 x 1 1/2 | 1     | 2.60  |
| 64 G 063  | C1410† | A    | 4.0     | 175    | 100      | 2 1/2 x 3 1/2 x 2 1/2 | 2 1/2 | 4.45  |
| 64 G 466  | C1411† | A    | 4.0     | 200    | 80       | 3 1/2 x 3 1/2 x 2 1/2 | 3 1/2 | 5.58  |
| 64 G 065  | C1412† | A    | 4.0     | 250    | 60       | 3 1/2 x 3 1/2 x 2 1/2 | 4 1/2 | 6.82  |
| 64 G 068  | C1420  | A    | 16.0    | 80     | 360      | 3 1/2 x 2 1/2 x 2 1/2 | 2 1/2 | 4.55  |
| 64 G 465  | C1421† | A    | 7.0     | 140    | 165      | 3 1/2 x 2 1/2 x 2 1/2 | 2 1/2 | 4.55  |
| 64 G 058  | C1515  | C    | 20.0    | 15     | 900      | 1 1/2 x 2 1/2 x 1 1/2 | 3/4   | 1.25  |
| 64 G 050  | C1706  | C    | 4.5     | 50     | 300      | 1 1/2 x 2 1/2 x 1 1/2 | 3/4   | 1.39  |
| 64 G 052  | C1707  | C    | 7.0     | 50     | 150      | 1 1/2 x 2 1/2 x 1 1/2 | 3/4   | 1.25  |
| 64 G 052  | C1708  | C    | 13.0    | 65     | 500      | 2 3/4 x 1 1/2 x 1 1/2 | 1     | 2.35  |
| 64 G 053  | C1709  | C    | 8.0     | 85     | 250      | 2 3/4 x 1 1/2 x 1 1/2 | 1 1/2 | 2.35  |
| 64 G 054  | C1710  | C    | 7.0     | 150    | 200      | 2 1/2 x 2 1/2 x 2 1/2 | 2 1/2 | 3.53  |
| 64 G 069  | C1721† | F    | 8.5     | 200    | 120      | 3 1/2 x 3 1/2 x 3 1/2 | 3 1/2 | 7.33  |
| 64 G 456  | C1722† | F    | 8.0     | 200    | 100      | 3 1/2 x 3 1/2 x 3 1/2 | 3 1/2 | 10.82 |
| 64 G 079  | C2303* | C    | 2.5     | 130    | 100      | 2 3/4 x 1 1/2 x 1 1/2 | 1     | 2.20  |
| 64 G 053  | C2304  | C    | 2.3     | 150    | 60       | 2 3/4 x 1 1/2 x 1 1/2 | 1     | 2.20  |
| 64 G 061  | C2305  | D    | 5.0     | 100    | 300      | 2 1/2 x 2 1/2 x 2 1/2 | 1 1/2 | 3.38  |
| 64 G 064  | C2308† | A    | 4.0     | 300    | 80       | 4 1/2 x 4 1/2 x 3 1/2 | 3 1/2 | 10.82 |
| 64 G 457  | C2309* | C    | 3.0     | 150    | 90       | 2 3/4 x 1 1/2 x 2 1/2 | 1 1/2 | 2.79  |
| 64 G 505  | C2325  | C    | 2.0     | 200    | 60       | 2 3/4 x 1 1/2 x 2 1/2 | 1 1/2 | 3.69  |
| 64 G 520  | C2326  | C    | 1.0     | 300    | 43       | 3 1/2 x 2 1/2 x 2 1/2 | 1 1/2 | 2.84  |
| 64 G 458  | C2327  | C    | 1.5     | 200    | 85       | 1 1/2 x 2 1/2 x 1 1/2 | 3/4   | 1.76  |
| 64 G 458  | C2328  | C    | 8       | 375    | 25       | 2 1/2 x 3 1/2 x 2 1/2 | 1 1/2 | 3.53  |
| 64 G 459  | C2334  | C    | 2.8     | 300    | 60       | 2 1/2 x 2 1/2 x 1 1/2 | 2 1/2 | 3.46  |
| 64 G 243  | C2343  | C    | .75     | 300    | 32       | 1 1/2 x 2 1/2 x 1 1/2 | 3/4   | 1.48  |
| 64 G 244  | C2344  | C    | 1.5     | 10     | 85       | 1 1/2 x 2 1/2 x 1 1/2 | 3/4   | 1.10  |
| 64 G 245  | C2345  | C    | 350     | 5      | 5600     | 1 1/2 x 2 1/2 x 1 1/2 | 1 1/2 | 3.01  |
| 64 G 246  | C2346  | C    | 35      | 15     | 1800     | 1 1/2 x 2 1/2 x 1 1/2 | 3/4   | 1.69  |
| 64 G 238  | C2685† | G    | .035    | 2A     | 75       | 2 1/2 x 2 1/2 x 2 1/2 | 2     | 3.48  |
| 64 G 239  | C2686† | G    | .025    | 4A     | 425      | 3 1/2 x 3 1/2 x 2 1/2 | 3 1/2 | 5.93  |
| 64 G 240  | C2687† | G    | .01     | 8A     | 15       | 3 1/2 x 3 1/2 x 3 1/2 | 5 1/2 | 9.89  |
| 64 G 241  | C2688† | G    | .01     | 12.5A  | 11       | 3 1/2 x 3 1/2 x 3 1/2 | 6     | 13.18 |
| 64 G 242  | C2689† | G    | .005    | 22.5A  | 0.3      | 3 1/2 x 3 1/2 x 3 1/2 | 12    | 13.18 |
| 64 G 137  | C6590  | J    | 3-0.75  | 1-2A   | 3.0-0.75 | 3 1/2 x 2 1/2 x 3 1/2 | 5     | 7.86  |
| 64 G 138  | C6591  | J    | .08-0.2 | 2.5-5A | 0.6-1.5  | 3 1/2 x 3 1/2 x 3 1/2 | 7     | 10.01 |
| 64 G 139  | C2704  | C    | 9       | 125    | 250      | 2 1/2 x 2 1/2 x 2 1/2 | 3 1/2 | 3.09  |
| 64 G 140  | C2705  | C    | 10      | 200    | 150      | 3 1/2 x 2 1/2 x 3 1/2 | 3 1/2 | 5.94  |
| 64 G 141  | C2706  | A    | 2.6     | 310    | 50       | 3 1/2 x 2 1/2 x 3 1/2 | 3 1/2 | 5.94  |

## FIXED-IMPEDANCE OUTPUT TRANSFORMERS

Transformers are Fig. C mounting type, except \*Fig. A. Type A3337 is similar to Fig. H, but has leads. Type A3330 has 4.5% primary tap.

| Stock No. | Mfr's Type | Primary   | Sec.           | Watts | Mfg. Ctrs.     | Wt. Lbs. | NET EACH |
|-----------|------------|-----------|----------------|-------|----------------|----------|----------|
| 64 G 013  | A2312      | 14,000 CT | 4              | 10    | 2 1/2"         | 1        | 2.79     |
| 64 G 245  | A2313      | 7,000     | 8              | 10    | 2 1/2"         | 1        | 2.50     |
| 64 G 033  | A3304*     | 7,10K CT  | 500/15/8/4     | 25    | 2 1/2 x 1 1/2" | 2 1/2    | 6.30     |
| 64 G 297  | A3311†     | 10K CT    | 500/15/8/4     | 25    | 2 1/2 x 2"     | 2 1/2    | 6.77     |
| 64 G 296  | A3327      | 25K       | 4              | 5     | 2"             | 1 1/2    | 1.60     |
| 64 G 244  | A3328      | 4,000     | 3.5            | 3     | 1 1/2"         | 1        | 1.34     |
| 64 G 246  | A3329      | 8,000     | 3.5            | 3     | 1 1/2"         | 1        | 1.34     |
| 64 G 299  | A3330      | 2K        | 3.5            | 5     | 2"             | 1 1/2    | 1.95     |
| 64 G 243  | A3332      | 2,000     | 3.2            | 3     | 1 1/2"         | 1 1/2    | 1.34     |
| 64 G 295  | A3337      | 5K        | 6-8            | 10    | 2 1/2"         | 1        | 2.78     |
| 64 G 020  | A3800*     | 5,000 CT  | 500/250/15/8/4 | 30    | 2 1/2 x 2"     | 4        | 6.73     |
| 64 G 021  | A3801*     | 6,600 CT  | 500/250/15/8/4 | 35    | 2 1/2 x 2 1/2" | 4 1/2    | 8.58     |
| 64 G 298  | A3831      | 10K CT    | 8/4/2          | 5     | 2 1/2"         | 1 1/2    | 2.65     |
| 64 G 015  | A3877      | 25K CT    | 4              | 5     | 2"             | 1 1/2    | 2.35     |
| 64 G 001  | A3876      | 2,000     | 4              | 5     | 2"             | 1 1/2    | 1.45     |
| 64 G 004  | A3877      | 5,000     | 4              | 5     | 2"             | 1 1/2    | 1.45     |
| 64 G 006  | A3878      | 7,000     | 4              | 5     | 2"             | 1 1/2    | 1.49     |
| 64 G 010  | A3879      | 10,000    | 4              | 5     | 2"             | 1 1/2    | 1.45     |
| 64 G 017  | A8094      | 4,000 CT  | 32/2/8         | 5 1/2 | 3 1/4"         | 1 1/2    | 3.99     |
| 64 G 138  | A8104      | 7,000     | 3.2            | 5 1/2 | 3 1/4"         | 1 1/2    | 1.77     |

\*Maximum primary DC current (for each half of primary if center-tapped). †Type TP-14 has two secondaries, 16 ohms series, 4 ohms parallel. ‡Type TP-1 for bridge rectifier power supply has 117 v. 0.5 amp. primary and 2 secondaries each supplying 13 or 18 volts at 900 ma. §Similar to D on preceding page. ¶15 A on preceding page. \*\*Similar to D on preceding page but with threaded mtg. studs. Average shunt wt., 3 oz. except: TA-13, 1½ lbs.; TA-14, 6¼ lbs.; TA-17, 3 lbs.; TA-21, 2¾ lbs.; TA-57 and TA-60, 1 lb.

| Stock No. | Mfr's Type | Fig. | Pri. Imp.<br>Ohms | Sec. Imp.<br>Ohms | MA* | Max. Watts | Size<br>(H.W.D.) | NET<br>EACH |
|-----------|------------|------|-------------------|-------------------|-----|------------|------------------|-------------|
| 63 G 952  | TA-1       | D    | 600 CT            | 10                | 20  | .05        | 1/32x1/8x1/16    | 1.89        |
| 63 G 857  | TA-15      | A    | 50-100            | 10                | 50  | 1.5w       | 1/32x1/8x1/16    | 1.47        |
| 63 G 860  | TA-18      | A    | 30 CT             | 50K               |     | .5m        | 21/32x1/8x1/16   | 1.47        |
| 63 G 889  | TA-4       | I    | 1K CT             | 200K CT           |     | .300       | 3/32x1/8x1/16    | 3.65        |
| 61 G 129  | TA-55      | D    | 500K              | 200 CT            |     | .300       | 21/32x1/8x1/16   | 4.16        |

|    |   |     |        |                |        |        |     |      |                 |       |
|----|---|-----|--------|----------------|--------|--------|-----|------|-----------------|-------|
| 63 | G | 959 | TA-8   | D              | 9800   | 1/5    | 2   | .05  | 13x27.1x13.7x   | 4.24  |
| 63 | G | 960 | TA-9   | D              | 1000   | 4/8/16 | 10  |      | 13x27.1x13.7x   | 4.48  |
| 63 | G | 961 | TA-10  | D              | 2K 2C  | 4/8/16 |     | .2   | 13x13.6x13.6x   | 5.32  |
| 63 | G | 962 | TA-11  | D              | 40 2C  | 8/16   | 275 | 5    | 2x31.9x13.6x    | 3.65  |
| 63 | G | 963 | TA-12  | D              | 28 2C  | 8/16   | 500 | 10   | 13x13.6x13.6x   | 1.89  |
| 63 | G | 964 | TA-143 | D <sup>+</sup> | 24 2C  | 16/42  | 200 | 10   | 4.9x13.6x3.9x   | 10.06 |
| 63 | G | 965 | TA-20  | A              | 350 2C | 4/8/16 |     | .150 | 21x21.3x13.6x   | 3.65  |
| 63 | G | 966 | TA-21  | A              | 600 2C | 4/8/16 |     | .150 | 21x21.3x13.6x   | 3.65  |
| 63 | G | 967 | TA-22  | A              | 500 2C | 4/8/16 |     | .150 | 21x21.3x13.6x   | 3.65  |
| 63 | G | 968 | TA-25  | A              | 825 2C | 4/8/16 |     | .150 | 21x21.3x13.6x   | 3.65  |
| 63 | G | 969 | TA-26  | A              | 1250   | 4/12   |     | .150 | 21x21.3x13.6x   | 3.65  |
| 63 | G | 970 | TA-27  | A              | 160    | 4/12   |     | .150 | 21x21.3x13.6x   | 3.65  |
| 63 | G | 971 | TA-28  | A              | 400 2C | 4/8/16 |     | .150 | 21x21.3x13.6x   | 3.65  |
| 63 | G | 972 | TA-33  | A              | 10K 2C | 4/8/16 |     | .150 | 21x21.3x13.6x   | 3.65  |
| 63 | G | 973 | TA-37  | A              | 400 2C | 11     |     | .150 | 21x21.3x13.6x   | 3.65  |
| 63 | G | 974 | TA-38  | A              | 100 2C | 4/8/16 |     | .300 | 13x13.6x13.6x   | 3.65  |
| 63 | G | 975 | TA-39  | A              | 160    | 4/8/16 |     | .300 | 13x13.6x13.6x   | 3.65  |
| 63 | G | 976 | TA-40  | A              | 400 2C | 4/8/16 |     | .300 | 13x13.6x13.6x   | 3.65  |
| 63 | G | 977 | TA-41  | A              | 500 2C | 4/8/16 |     | .300 | 13x13.6x13.6x   | 3.65  |
| 63 | G | 978 | TA-42  | A              | 700 2C | 4/8/16 |     | .300 | 13x13.6x13.6x   | 3.65  |
| 63 | G | 979 | TA-43  | A              | 500 2C | 4/8/16 |     | .300 | 13x13.6x13.6x   | 3.65  |
| 63 | G | 980 | TA-44  | A              | 2500   | 4/8/16 |     | .300 | 13x13.6x13.6x   | 3.65  |
| 63 | G | 981 | TA-45  | A              | 3000   | 4/8/16 |     | .300 | 13x13.6x13.6x   | 3.65  |
| 63 | G | 982 | TA-46  | A              | 3000   | 4/8/16 |     | .300 | 13x13.6x13.6x   | 3.65  |
| 63 | G | 983 | TA-47  | A              | 3000   | 4/8/16 |     | .300 | 13x13.6x13.6x   | 3.65  |
| 63 | G | 984 | TA-48  | A              | 3000   | 4/8/16 |     | .300 | 13x13.6x13.6x   | 3.65  |
| 63 | G | 985 | TA-49  | A              | 3000   | 4/8/16 |     | .300 | 13x13.6x13.6x   | 3.65  |
| 63 | G | 986 | TA-50  | A              | 3000   | 4/8/16 |     | .300 | 13x13.6x13.6x   | 3.65  |
| 63 | G | 987 | TA-51  | A              | 3000   | 4/8/16 |     | .300 | 13x13.6x13.6x   | 3.65  |
| 63 | G | 988 | TA-52  | A              | 3000   | 4/8/16 |     | .300 | 13x13.6x13.6x   | 3.65  |
| 63 | G | 989 | TA-53  | A              | 3000   | 4/8/16 |     | .300 | 13x13.6x13.6x   | 3.65  |
| 63 | G | 990 | TA-54  | A              | 3000   | 4/8/16 |     | .300 | 13x13.6x13.6x   | 3.65  |
| 63 | G | 991 | TA-55  | A              | 3000   | 4/8/16 |     | .300 | 13x13.6x13.6x   | 3.65  |
| 63 | G | 992 | TA-56  | H              | 10 2C  | 3/8/16 | 10  |      | 25x6x27.1x27.1x | 2.04  |
| 63 | G | 993 | TA-57  | H              | 10 2C  | 3/8/16 | 500 | 10   | 25x6x27.1x27.1x | 2.04  |
| 63 | G | 994 | TA-58  | H              | 10 2C  | 3/8/16 | 500 | 15   | 25x6x27.1x27.1x | 2.04  |
| 63 | G | 995 | TA-59  | H              | 10 2C  | 3/8/16 | 500 | 15   | 25x6x27.1x27.1x | 2.04  |
| 63 | G | 996 | TA-60  | H              | 10 2C  | 3/8/16 | 500 | 15   | 25x6x27.1x27.1x | 2.04  |
| 63 | G | 997 | TA-61  | H              | 10 2C  | 3/8/16 | 500 | 15   | 25x6x27.1x27.1x | 2.04  |
| 63 | G | 998 | TA-62  | H              | 10 2C  | 3/8/16 | 500 | 15   | 25x6x27.1x27.1x | 2.04  |
| 63 | G | 999 | TA-63  | H              | 10 2C  | 3/8/16 | 500 | 1    |                 |       |

|    |   |     |       |   |         |         |     |      |                                        |      |
|----|---|-----|-------|---|---------|---------|-----|------|----------------------------------------|------|
| 63 | G | 953 | TA-2  | D | 100 CT  | 10 CT   | 100 | 25   | $1/16 \times 2 \times 13/16$           | 1.89 |
| 63 | G | 954 | TA-3  | D | 100     | 1K CT   | 100 | 25   | $1/16 \times 2 \times 13/16$           | 1.89 |
| 63 | G | 955 | TA-4  | A | 500 CT  | 5K CT   | 12  | 03   | $1/8 \times 2 \times 13/16$            | 2.48 |
| 63 | G | 961 | TA-19 | A | 100 CT  | 10 CT   |     | .150 | $2 \times 1/2 \times 1/16 \times 3/8$  | 3.65 |
| 63 | G | 864 | TA-22 | A | 500 CT  | 50      |     | .150 | $2 \times 1/2 \times 13/16 \times 3/8$ | 3.65 |
| 63 | G | 865 | TA-23 | A | 500 CT  | 50K     |     | .150 | $2 \times 1/2 \times 13/16 \times 3/8$ | 3.65 |
| 63 | G | 869 | TA-27 | A | 1200    | 20K CT  |     | .150 | $2 \times 1/2 \times 13/16 \times 3/8$ | 3.65 |
| 63 | G | 870 | TA-28 | A | 1500    | 500 CT  |     | .150 | $2 \times 1/2 \times 13/16 \times 3/8$ | 3.65 |
| 63 | G | 872 | TA-30 | A | 5K CT   | 7500 CT |     | .150 | $2 \times 1/2 \times 13/16 \times 3/8$ | 3.65 |
| 63 | G | 873 | TA-31 | A | 5K CT   | 10K CT  |     | .150 | $2 \times 1/2 \times 13/16 \times 3/8$ | 3.65 |
| 63 | G | 874 | TA-32 | A | 5K CT   | 80K CT  |     | .150 | $2 \times 1/2 \times 13/16 \times 3/8$ | 3.65 |
| 63 | G | 876 | TA-33 | A | 200     | 200     |     | .150 | $2 \times 1/2 \times 13/16 \times 3/8$ | 3.65 |
| 63 | G | 877 | TA-35 | A | 10K     | 2K CT   |     | .150 | $2 \times 1/2 \times 13/16 \times 3/8$ | 3.65 |
| 63 | G | 878 | TA-36 | A | 10K     | 3K CT   |     | .150 | $2 \times 1/2 \times 13/16 \times 3/8$ | 3.65 |
| 63 | G | 880 | TA-38 | A | 500 CT  | 150 CT  |     | .150 | $2 \times 1/2 \times 13/16 \times 3/8$ | 3.65 |
| 63 | G | 888 | TA-46 | A | 1000    | 1500 CT |     | .300 | $3 \times 1/16 \times 1/16 \times 3/8$ | 3.65 |
| 63 | G | 897 | TA-47 | A | 500 CT  | 500 CT  |     | .150 | $2 \times 1/2 \times 13/16 \times 3/8$ | 3.65 |
| 61 | G | 128 | TA-53 | A | 5000 CT | 45000   |     | .300 | $3 \times 1/16 \times 1/16 \times 3/8$ | 3.99 |
| 61 | G | 299 | TA-54 | A | 20000   | 800 CT  |     | .150 | $2 \times 1/2 \times 13/16 \times 3/8$ | 3.99 |

|    |   |     |       |    |        |        |     |     |                                                                      |      |
|----|---|-----|-------|----|--------|--------|-----|-----|----------------------------------------------------------------------|------|
| 63 | G | 956 | TA-5  | D  | 1000   | 200 CT | 10  | .05 | % $1\frac{1}{4} \times \frac{1}{2}$ "                                | 4.70 |
| 63 | G | 957 | TA-6  | D  | 2000   | 200 CT | 5   | .05 | % $1\frac{1}{4} \times \frac{1}{2}$ "                                | 5.32 |
| 63 | G | 958 | TA-7  | D  | 100    | 100 CT | 100 | .5  | 1" $x 2\frac{1}{2}$ "                                                | 1.89 |
| 63 | G | 964 | TA-13 | D# | 200 CT | 400 CT | 10  | .6  | 3x2 $\frac{1}{2}$ " $\frac{1}{2}$ x2 $\frac{3}{32}$ "                | 4.02 |
| 63 | G | 858 | TA-16 | D  | 20"    | 36 CT  | 400 | 1   | 1 $\frac{3}{16}$ x2 $\frac{1}{2}$ " $\frac{1}{2}$ x1 $\frac{1}{8}$ " | 1.70 |
| 61 | G | 131 | TA-58 | D  | 100    | 200 CT | 200 | .5  | 1 $\frac{1}{4}$ $x 2\frac{1}{4}$ "                                   | 2.13 |
| 63 | G | 478 | TA-59 | D  | 500 CT | 200 CT | 5   | .5  | 1 $\frac{1}{4}$ $x 2\frac{1}{4}$ "                                   |      |

|          |       |     |     |              |    |          |      |
|----------|-------|-----|-----|--------------|----|----------|------|
| 63 G 859 | TA-17 | A†† | 8CT | 7.5K/5K, 120 | 35 | 3½x3x2½" | 6 36 |
|----------|-------|-----|-----|--------------|----|----------|------|

|          |       |     |  |  |  |  |           |      |
|----------|-------|-----|--|--|--|--|-----------|------|
| 63 G 966 | TP-1† | A†† |  |  |  |  | (2×2×2)½" | 1.40 |
|----------|-------|-----|--|--|--|--|-----------|------|

Type A4350 is for microphone-to-line or line-to-line. Others for microphone, pickup or line-to-grid. A4350 and A4352 are Fig. G. A4705 is Fig. D, and A4351 is Fig. D, on preceding page. \*Center-tapped. †Same as primary impedance.

| Stock No. | Type  | Primary Ohms         | Sec. Ohms | Mtg. Ctrs      | Lbs.  | NET  |
|-----------|-------|----------------------|-----------|----------------|-------|------|
| 64 G 094  | A4350 | 500*/333/200*/125/50 | †         | 2 1/2"         | 1     | 4.24 |
| 64 G 097  | A4351 | 500*/333/200*/125/50 | 89,000    | 2 3/4 x 1 1/2" | 1 1/2 | 4.54 |
| 64 G 093  | A4352 | 500*/333/200*/125/50 | 89,000    | 2 1/8"         | 1     | 4.70 |
| 64 G 096  | A4705 | 200/70               | 80,000    | 2"             | 1/2   | 2.91 |

Single-secondary filament transformers. All are center-tapped except Type P6469 and Type P8190. Type P8191 designed for filament isolation has 6.3 v. primary and secondary. All others, 117 v., 60 cycle,  $\phi$ .  
\*Illustrated on preceding page.

| Stn. | Stock No. | Mfr's Type | Fig. | Volts | Amps | Insul. | Mfg. Ctrs. | Wt., Lbs. | NEAC |
|------|-----------|------------|------|-------|------|--------|------------|-----------|------|
| 64   | G 141     | P6133      |      | 2.5   | 5.0  | 7500   | 213½"      | 1½        | 3.7  |
| 64   | G 301     | P3060      | E    | 2.5   | 10.0 | 10K1V  | 21½x1¾"    | 2         | 6.5  |
| 64   | G 262     | P6467      | D    | 5.0   | 3.0  | 2500   | 213½"      | 1½        | 3.0  |
| 64   | G 252     | P3062      | D    | 5.0   | 6.0  | 2500   | 2x2"       | 2         | 5.0  |
| 64   | G 255     | P6443      | E    | 5 CT  | 15   | 2500   | 2x2½"      | 2         | 5.0  |
| 61   | G 234     | P6432      | E    | 5 CT  | 21   | 2500   | 21x2½"     | 4½        | 8.1  |
| 64   | G 888     | P6492      | A*   | 5.0   | 30.0 | 2500   | 3x23½"     | 7½        | 10.7 |
| 64   | G 134     | P6464      | A*   | 6.3CT | 10   | 2500   | 2x2½"      | 3½        | 6.8  |
| 64   | G 302     | P6463      | D    | 6.3   | 15   | 3000   | 21½"       | 2         | 1.9  |
| 64   | G 308     | P6134      | D    | 6.3   | 1.2  | 3000   | 213½"      | 1         | 2.3  |
| 64   | G 584     | P8190      | D    | 6.3   | 1.2  | 5000   | 213½"      | 1         | 2.3  |
| 64   | G 585     | P8191      | D    | 6.3   | 1.2  | 5000   | 213½"      | 1         | 2.3  |
| 64   | G 230     | P6428      | A*   | 6.3   | 1.75 | 2500   | 2x1½"      | 1         | 6.0  |
| 61   | G 232     | P6430      | A*   | 6.3   | 3.0  | 2500   | 2x1½"      | 1½        | 6.3  |
| 61   | G 232     | P6430      | A*   | 6.3CT | 3.0  | 2500   | 2x1½"      | 2½        | 6.3  |
| 64   | G 309     | P5014      | E    | 6.3   | 3.0  | 2500   | 2x1½"      | 2         | 4.5  |
| 61   | G 231     | P6429      | A*   | 6.3   | 3.5  | 2500   | 21x2½"     | 4         | 8.2  |
| 64   | G 231     | P6429      | A*   | 6.3   | 3.5  | 2500   | 2x1½"      | 2½        | 4.9  |
| 64   | G 264     | P4089      | A*   | 6.3   | 6.0  | 2500   | 2x2"       | 2½        | 6.3  |
| 64   | G 312     | P3064      | E    | 6.3   | 6.0  | 2500   | 2x2"       | 2½        | 6.3  |
| 61   | G 233     | P6431      | F    | 6.3CT | 6.0  | 2500   | 21½x23½"   | 4½        | 8.1  |
| 64   | G 313     | P6308      | A*   | 6.3   | 10.0 | 2500   | 21x2½"     | 3½        | 6.4  |
| 64   | G 313     | P6308      | A*   | 6.3   | 20.0 | 2500   | 21x2½"     | 6½        | 10.6 |
| 64   | G 314     | P5015      | E    | 7.5   | 4.0  | 2500   | 2x2½"      | 3         | 5.9  |
| 64   | G 257     | P5016      | E    | 10.0  | 4.0  | 2500   | 21x2½"     | 3½        | 5.9  |
| 64   | G 318     | P6139      | A*   | 10.0  | 8.0  | 2500   | 21x2½"     | 5         | 7.6  |
| 64   | G 258     | P4007      | A*   | 10.0  | 8.0  | 2500   | 21x2½"     | 5½        | 7.6  |
| 64   | G 258     | P4007      | A*   | 10.0  | 6.0  | 1500   | 313½"      | 3         | 3.2  |
| 64   | G 143     | P6469      | D    | 25.2  | 1.0  | 1500   | 313½"      | 1½        | 3.2  |
| 61   | G 200     | P6456      | D    | 6.3CT | 6.0  | 2500   | 213½"      | 2         | 5.9  |

Replacement units for radio and television receivers and other general audio applications. Multi-tapped windings permit installation with various types of output tubes and circuits such as single-ended all push-pull plates to voice coil or line. All are Fig. G except \*Fig. I. Secondary: †500 ohms; ‡500, 333, 200, 125, 50 ohms Wt., 1½ lb.

| Stock No. | Mfr's Type | Primary          | Watts     | Size                   | NE  |
|-----------|------------|------------------|-----------|------------------------|-----|
| 64 G 294  | A3820*     | 5K; 10, 20K CT   | (15' max) | 2x3 1/2 x 1 1/8"       | 4.9 |
| 64 G 005  | A3825*     | 7-10K            | 8         | 1 1/2 x 3 1/2 x 1 1/8" | 1.9 |
| 64 G 006  | A3825*     | 4-1.5K CT        | 8         | 1 1/2 x 2 1/2 x 1 1/8" | 2.5 |
| 64 G 242  | A3824      | 6-10K CT         | 8         | 2x3 1/2 x 1 1/8"       | 3.2 |
| 64 G 002  | A3825      | 1-5.4K           | 8         | 2x3 1/2 x 1 1/8"       | 2.5 |
| 64 G 028  | A3830*     | 3-10K CT         | 20        | 2 1/2 x 3 1/2 x 2 1/8" | 4.4 |
| 64 G 023  | A3831*     | 2.5, 4, 5, 6, 7K | 10        | 1 1/2 x 2 1/2 x 1 1/8" | 4.9 |
| 64 G 024  | A3830*     | 1-10K            | 10        | 1 1/2 x 2 1/2 x 1 1/8" | 3.2 |
| 64 G 024  | A3850*     | 4-14K CT         | 8         | 2x2 1/2 x 1 1/8"       | 3.2 |
| 64 G 027  | A3852*     | 4-14K CT         | 18        | 2 1/2 x 2 1/2 x 2 1/8" | 3.9 |
| 64 G 025  | A3856      | 4-14K CT         | 4         | 1 1/2 x 2 1/2 x 1 1/8" | 2.8 |
| 64 G 026  | A3870      | 4-14K CT         | 18        | 2 1/2 x 2 1/2 x 2 1/8" | 3.9 |
| 64 G 292  | A3880      | 4-14K CT         | 18        | 2 1/2 x 2 1/2 x 2 1/8" | 3.9 |

Single plate (10,000 ohms primary impedance) to push-pull grids. For use between first audio and push-pull output stage.  $\frac{5}{8} \times \frac{5}{8}$ " core except for A-4752 which has  $\frac{3}{4} \times \frac{3}{4}$ " core. (Fig. D.)

| Stock No. | Mfr's Type | Pri. 1/2 Sec. Ratio | Max. Pri. DC. | Size                   | Wt., Lbs. | NET EACH |
|-----------|------------|---------------------|---------------|------------------------|-----------|----------|
| 64 G 076  | A-4713     | 2:1                 | 30 ma         | 1 1/2 x 2 1/2 x 1 1/2" | 1         | 2.08     |
| 64 G 038  | A-4723     | 3:1                 | 30 ma         | 1 1/2 x 2 1/2 x 1 1/2" | 1         | 2.11     |
| 64 G 039  | A-4752     | 2 1/5:1:1           | 40 ma         | 2 x 3 1/4 x 1 1/4"     | 1 1/2     | 2.87     |

**E** For low voltage, high current applications. Use with CT or bridge rectifier circuits. For 117 v., 50-60 cycle AC. With wiring chart.

| Stock No. | Mfr's Type | Range of AC Volts        | Max. DC Output Load |            | Size      | Wt. Lb. | Net Each |
|-----------|------------|--------------------------|---------------------|------------|-----------|---------|----------|
|           |            |                          | Resistive           | Capacitive |           |         |          |
| 64 G 372  | RT-201     | 11.7 to 29 411.2v @ 2.0A | 13.4v @ 1.25A       | 8.0A       | 3½x2½x3½" | 2½      | 4.9      |
| 64 G 373  | RT-202     | 11.7 to 29 523.0v @ 2.0A | 1.25A 10.0v @ 1.25A | 8.0A       | 3½x2½x3½" | 4       | 6.7      |
| 64 G 374  | RT-204     | 11.7 to 29 212.0v @ 2.0A | 8.0A 14.5v @ 8.0A   | 4x3½x4½"   | 6½        | 8.7     |          |
| 64 G 375  | RT-206     | 11.7 to 29 224.0v @ 2.0A | 4.0A 12.4v @ 4.0A   | 4x3½x4½"   | 9         | 11.8    |          |
| 64 G 376  | RT-208     | 12.0 to 29 111.1v @ 2.0A | 12.0A 14.4v @ 12.0A | 4x3½x5½"   | 12½       | 24.0    |          |
| 64 G 378  | RT-212     | 12.0 to 29 211.4v @ 2.0A | 15.0A 14.4v @ 15.0A | 4x3½x5½"   | 12½       | 24.0    |          |
| 61 G 135  | P8193      | 12.0 to 29 223.7v @ 2.0A | 8.0A 30.2v @ 8.0A   | 3x4x3½"    | 6         | 8.4     |          |
| 61 G 136  | P8194      | 12.2 to 29 203.5v @ 2.0A | 22.5A 14.3v @ 22.5A | 5x4x3½"    | 10        | 14.3    |          |



# Stancor, Acrosound, Acme Transformers



## STANCOR TRANSFORMERS

### LINE-TO-VOICE-COIL TRANSFORMER

A3837 is autotransformer; operates one or more speakers in 1/2 watt. EIA 70V volt types, used with various power levels for peaker in a system are needed. \*Power steps in watts.

| k   | Mfr's Type | Fig. | Primary Imp.                       | Secondary Imp.                                                  | Watts | Mtg. Ctrs. | Lbs.   | NET EACH |
|-----|------------|------|------------------------------------|-----------------------------------------------------------------|-------|------------|--------|----------|
| 087 | A3831      | A    | 1500/1000/500                      | 15/8/4                                                          | 25    | 3 3/4"     | 2 1/2" | 4.82     |
| 088 | A3837      | A    | 500/1000<br>1500/2000<br>2500/3000 | .06 to 8, 12 to 16<br>.18 to 24, 24 to 32<br>30 to 40, 36 to 48 | 15    | 2 1/4"     | 1 1/4" | 3.93     |
| 098 | A3833      | A    | 500                                | 15/8/6/4                                                        | 25    | 2 3/4"     | 1 1/4" | 3.38     |
| 085 | A7947      | B    | 2000/1500/<br>1000/500             | 6-8/3/2                                                         | 8     | 2 3/4"     | 1 1/4" | 2.87     |
| 086 | A7949      | A    | 2000/1500/<br>1000/500             | 6-8/3/2                                                         | 12    | 2 3/4"     | 1 1/4" | 3.37     |
| 296 | A8300*     | B    | 5/4/3/2/1/1                        | 8/16                                                            | 5     | 2"         | 1 1/4" | 2.85     |
| 298 | A8302*     | A    | 15/14/13/12/<br>11/1               | 8/16                                                            | 10    | 2"         | 1 1/4" | 3.10     |
| 201 | A8095      | B    | 5/2.5/1.25<br>4/8                  | 8/16                                                            | 15    | 2 3/4"     | 1 1/4" | 3.59     |
| 202 | A8096      | A    | 8/4/2/1/0.5†                       | 4/8/16                                                          | 8     | 2"         | 1 1/4" | 3.53     |
| 203 | A8097      | A    | 16/8/4/2/<br>1/0.5†                | 4/8/16                                                          | 16    | 2 1/4"     | 1 1/4" | 4.23     |
| 089 | A8101      | B    | 500                                | 3/2/6-8                                                         | 5     | 2"         | 1 1/4" | 1.73     |
| 091 | A8102*     | A    | 8/4/2/1/1.5†                       | 4/8/16                                                          | 8     | 2"         | 1 1/4" | 3.43     |
| 092 | A8103*     | A    | 16/8/4/2/<br>1.5†                  | 4/8/16                                                          | 16    | 2 1/4"     | 1 1/4" | 4.85     |
| 099 | A8104      | A    | 3000/2000/<br>1500/1000/500        | 16/8/4                                                          | 10    | 2 3/4"     | 1 1/4" | 3.99     |
| 889 | A8105*     | A    | 5/2.5/1.25/<br>.62/.31†            | 4/8                                                             | 5     | 2"         | 1 1/4" | 2.78     |
| 890 | A8106*     | A    | 16/8/4/2/1†                        | 4/8/16                                                          | 8     | 2"         | 1 1/4" | 2.94     |
| 891 | A8107      | A    | 16/8/4/2/1†                        | 4/8/16                                                          | 16    | 2 1/4"     | 1 1/4" | 4.64     |

### HIGH-FIDELITY OUTPUT TRANSFORMERS

frequency response of 20-20,000 cycles at 25 watts, ± 1 db. Maximum rating, 50 watts. Designed to insure an extremely low level of modulation distortion. Size, 4 1/4"x3 1/4"x4 1/4". Shpg. wt., 7 lbs.

| pk  | Mfr's Type | Pri. Imp. (P-P) | Sec. Imp. | Max. Pri. DC | NET EACH |
|-----|------------|-----------------|-----------|--------------|----------|
| 263 | A-8053     | 5000            | 8, 16     | 150 ma       | 13.36    |
| 270 | A-8056     | 6000            | 8, 16     | 125 ma       | 13.36    |
| 564 | A-8054     | 9000            | 8, 16     | 100 ma       | 13.36    |
| 574 | A-8072     | 7600            | 4, 8, 16  | 100 ma       | 16.27    |
| 183 | A-8098     | 2000            | 8, 16, 32 | 140 ma       | 7.98     |

### ISOLATION TRANSFORMERS

for isolating transformerless (AC-DC type) radios and TV sets from over line. \*Primary is tapped for 105, 115 and 125 volts; 115-volt primary with standard outlet. †Has 115-volt primary and tapped lary with 3 standard outlets for 105, 115 and 125 volts; includes an electrostatic shield grounded to core. †115-volt primary and 3lt secondary; standard outlet. All have line cord and plug.

| ock lo. | Mfr's Type | Watts | Size                 | Fig. | Wt. Lbs. | NET EACH |
|---------|------------|-------|----------------------|------|----------|----------|
| 449     | P-64105    | 50    | 3 1/4"x2 1/4"x3 3/4" | C    | 4        | 7.77     |
| 443     | P-6100*    | 100   | 4 1/4"x3 3/4"        | C    | 7        | 14.19    |
| 475     | P-6371†    | 175   | 5 1/4"x4 1/4"x5 1/4" | D    | 9        | 18.95    |
| 484     | P-64114    | 150   | 4 1/4"x3 3/4"        | C    | 17       | 23.00    |
| U 448   | P-6298*    | 500   | 7 3/8"x6 1/2"x7 3/8" | C    | 28       | 42.27    |

### AIR CONDITIONER AUTOTRANSFORMERS

**PSU-2000.** Designed for use with home conditioners having 1/2 to 1 hp. motors. 1 ton unit. Converts 208-volt unit to alt line. Converting a 230-volt unit to alt line is done by a simple change in the outlet box. Supplied with line cord, and 250 volt polarized plug, and is re- rated at 2.5 KVA. Size, 3 1/2"x2 1/2"x2 1/2". Shpg. wt., 9 lbs. **967. NET EACH 16.39**

**PSU-3000.** Similar to PSU-2000, but designed for larger air con- ditioners. Supplies enough power to drive a 1 to 2-hp. motor of the type n 1 to 2 ton conditioners. Converts 208-volt unit to 230 volts, or alt unit to 208. 4x6x4 1/2". Shpg. wt., 10 lbs. **968. NET EACH 19.68**

### OSCILLOSCOPE TRANSFORMER

**P8178.** Designed especially for use in oscilloscopes, de ray tube applications, and other types of test ment. Primary, 117 volts, 60 cycles. Plate, 1800 volts 2 ma. Rectifier filament, 2.5 volts at 1.8 amps. Filia- 1, 6.3 volts at 0.6 amps; tapped at 2.5 volts, 2.1 amps. Size, 3 1/2"x3 1/4"x3 1/4". 4-hole mounting; mtg. centers, 1/2". Shpg. wt., 3 1/2 lbs. **903. NET 27.4**

### INTERCOM AND TRANSEIVER TRANSFORMERS

Type A-4744 is similar to Fig. H mounting type but with side shells. Type A-8090 and A-8091 are similar to Fig. H but with solder lug sec- ondary connections. Type A-3833 is Fig. H type. Type A-4749 is Fig. J. Type A-3817 modulation and output transformer is designed especially for use in citizen's band equipment. \*3 watts, †8 watts, ‡5 watts. Type A-3833 is for microphone input or plate to grid. Av. shpg. wt., 1 lb.

| Stock No. | Mfr's Type | Application  | Imp. Pri. | Ohms Sec. | Size                 | HWD | NET EA. |
|-----------|------------|--------------|-----------|-----------|----------------------|-----|---------|
| 61 G 236  | A-3817     | Transceiver  | 5000      | 6750.4    | 1 1/4"x2 3/4"x1 1/2" |     | 2.94    |
| 64 G 030  | A-7844     | V.C. to grid |           | 25K       | 1 3/8"x2 3/8"x1 3/8" |     | 1.98    |
| 64 G 489  | A-8090*    | line to V.C. | 45-50     | 3-4, 6-8  | 1 3/8"x2 3/8"x1 3/8" |     | 1.73    |
| 64 G 490  | A-8091†    | line to V.C. | 45-50     | 3-4, 6-8  | 1 3/8"x2 3/8"x1 3/8" |     | 2.06    |
| 64 G 031  | A-3833‡    | Transceiver  | 200 & 5K  | 600K      | 1 1/2"x2 3/8"x1 1/2" |     | 2.81    |
| 64 G 148  | A-4749     | Tele. Patch  | 10K       | 100K      | 1 1/4"x1 1/4"x2 1/4" |     | 4.75    |

### CONTROL TRANSFORMERS

Fig. A, except \*Fig. G, 2-section secondary for series or parallel operation. For 115 or 230 v., 50-60 cycle AC.

| Stock No. | Mfr's Type | Secondary - Parallel | Series | Size                 | Mtg. Ctrs. | Lbs.  | NET EACH |
|-----------|------------|----------------------|--------|----------------------|------------|-------|----------|
| 63 G 276  | P6375      | 6V@2A                | 12V@1A | 2x2 1/2"x1 1/4"      | 2 1/4"     | 1     | 3.27     |
| 63 G 277  | P6376      | 6V@4A                | 12V@2A | 3 1/2"x3 1/2"x2 1/4" | 2 1/4"     | 1 1/2 | 3.71     |
| 63 G 278  | P6377      | 12V@4A               | 24V@2A | 3 1/2"x3 1/2"x2 1/4" | 3 1/4"     | 2 1/2 | 4.69     |
| 63 G 279  | P6378*     | 12V@8A               | 24V@4A | 3 1/2"x3 1/2"x2 1/4" | 3 1/4"     | 4 1/4 | 6.44     |
| 63 G 280  | P6379*     | 12V@16A              | 24V@8A | 4 1/2"x3 1/2"x3 1/2" | 3 1/2"     | 8     | 13.06    |

### POLY-PEDANCE MODULATION TRANSFORMERS

**F** Match Class "B" modulators to Class "C" load impedances in Ama- teur and commercial transmitters. Multi-tapped primary and sec- ondary windings match load impedances from 2000 to 20,000 ohms.

| Stock No. | Mfr's Type | Max. DC Output Load | Watts   | Size            | Wt. Lbs. | NET EACH |
|-----------|------------|---------------------|---------|-----------------|----------|----------|
| 64 G 478  | A-3893     | 180 ma.             | 180 ma. | 4x4 1/4"x4 1/4" | 7        | 12.90    |
| 64 G 488  | A-3894     | 225 ma.             | 225 ma. | 4x4 1/4"x4 1/4" | 10       | 16.25    |

### TUBE CHECKER TRANSFORMER

**B** Type P-1834-3. Multiple-secondary transformer. Pri.: 125/115/105 v., 60 cycles. Secondary output volts: 1.1/1.4/1.5/2.0/2.5/3.0/3.3/4.0/5.0/6.3/7.0/7.5/12/20/25/30/35/50/70/85/110/117. Mtg. Ctrs. 3 1/4". Size, 2 1/2"x2 1/2"x2 1/2". Shpg. wt., 2 1/2 lbs. **9.92**

### ACROSOUND HI-FI OUTPUT TRANSFORMERS

High-fidelity output transformer for Ultra-Linear Acro- sound and Williamson-type amplifier circuits. Frequency response = 1 db. 10-100,000 cps. Permissible feedback 30 db. 4-8-16 secondary impedance except \*also with 125 and 500 ohms. 10" color-coated leads brought out through case bottom. Seamless steel case in gray finish with base flange; § with 4 #8 mounting lugs; †case not illustrated.

| Stock No. | Mfr's Type | Pri. Ohms | Watts | Size                 | Lbs. | NET   |
|-----------|------------|-----------|-------|----------------------|------|-------|
| 63 G 993  | TO-300     | 6600      | 40    | 4 1/4"x3 3/4"x3 3/4" | 7    | 24.75 |
| 63 G 994  | TO-305*    | 6600      | 40    | 4 1/4"x3 3/4"x3 3/4" | 8    | 30.75 |
| 63 G 995  | TO-310     | 8000      | 20    | 4 1/4"x3 3/4"x3 3/4" | 6    | 18.75 |
| 63 G 996  | TO-315*    | 8000      | 20    | 4 1/4"x3 3/4"x3 3/4" | 7    | 24.75 |
| 63 G 997  | TO-320     | 3500      | 20    | 4 1/4"x3 3/4"x3 3/4" | 6    | 18.75 |
| 63 G 998  | TO-308†    | 3800      | 100   | 5 1/2"x4 1/2"x3 1/2" | 14   | 39.75 |
| 63 G 991  | TO-340§    | 5000      | 100   | 5 1/2"x4 1/2"x3 1/2" | 14   | 39.75 |

### TP-520 POWER TRANSFORMER

For high-fidelity amplifiers using 6V6's, 6V6's, EL-84's. Delivers 285.0- 285 v. at 15 ma., 5 v. at 2 amps, and 6.3 v. at 5 amps. Gray case, 4x3 1/4 x 3 1/4", 10" wire leads. For 110-120 v., 60 cycle AC. 6 lbs. **975**

### ACME VARIABLE-VOLTAGE TRANSFORMERS

Efficient, isolation-type voltage regulators. Used to correct for high or low line voltage. Adjusted by turning 7-position rotary switch until built-in vol- meter reads 115 volts out- put. Type T8944 has input switch positions for 95, 100, 105, 110, 115, 120, 125 volts at 50-60 cy- cles. Type T10306 is for 65, 75, 90, 100, 115, 130, and 145 volts. Plug-in installation; AC receptacle and 8 ft. cord.

| Stock No. | Type   | Watts | Fig. | Size                 | Lbs. | NET EA. |
|-----------|--------|-------|------|----------------------|------|---------|
| 62 G 514  | T8944M | 300   | K    | 4 1/4"x4 1/2"        | 9    | 11.55   |
| 62 G 501  | T10306 | 150   | L    | 4 1/4"x4 1/2"x5 1/4" | 7    | 15.75   |

# Knight Transformers and Chokes



A



B



C



D



E



F



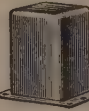
G



H



I



J

## STANDARD OUTPUT TRANSFORMERS

A For coupling plate of output tube to the speaker voice coil. Designed for class A amplifiers. Secondary imp. 3.2 ohms, except \*3.5, †4 ohms, and †6-8 ohms. \$4.50 primary tap. Shpg. wt., ¼ lb.

| Stock No. | Primary Imp. | Ma. | Audio Watts | Size, H. W. D.        | NET EACH |
|-----------|--------------|-----|-------------|-----------------------|----------|
| 61 G 401  | 2000         | 50  | 3           | 1 1/2 x 2 1/2 x 1 1/2 | 1.02     |
| 61 G 065  | 2000         | 50  | 3           | 1 1/2 x 2 1/2 x 1 1/2 | 1.00     |
| 61 G 445  | *2000        | 60  | 5           | 1 1/2 x 2 1/2 x 1 1/2 | 1.48     |
| 61 G 402  | +2000        | 60  | 5           | 1 1/2 x 2 1/2 x 1 1/2 | 1.70     |
| 61 G 063  | 2500         | 50  | 3           | 1 1/2 x 1 1/2 x 1 1/2 | 1.07     |
| 61 G 400  | *4000        | 40  | 3           | 1 1/2 x 2 1/2 x 1 1/2 | 1.07     |
| 61 G 064  | 4000         | 40  | 3           | 1 1/2 x 2 1/2 x 1 1/2 | 1.07     |
| 61 G 403  | +5000        | 40  | 3           | 1 1/2 x 2 1/2 x 1 1/2 | 1.07     |
| 61 G 446  | +5000        | 40  | 10          | 2 1/2 x 2 1/2 x 1 1/2 | 1.89     |
| 61 G 447  | +7000        | 30  | 3           | 1 1/2 x 2 1/2 x 1 1/2 | 1.25     |
| 61 G 093  | 8000         | 20  | 3           | 1 1/2 x 2 1/2 x 1 1/2 | 1.20     |
| 61 G 448  | +10,000      | 30  | 3           | 1 1/2 x 2 1/2 x 1 1/2 | 1.20     |
| 61 G 449  | ±25,000      | 5   | 5           | 1 1/2 x 2 1/2 x 1 1/2 | 1.42     |

## UNIVERSAL OUTPUT TRANSFORMERS

B CT primary, except \*single-ended output. 6 taps on secondary Match single or push-pull tubes to speaker voice coil. Fig. C

| Stock No. | Primary Impedances | Watts  | Mtg. Ctrs. | Lbs.  | NET EACH |
|-----------|--------------------|--------|------------|-------|----------|
| 61 G 023  | 2000-14,000 ohms   | 4      | 2"         | 1/2   | 1.77     |
| 61 G 021  | 2000-14,000 ohms   | 8      | 2 1/2"     | 3/4   | 1.99     |
| 61 G 452  | 2000-14,000 ohms   | 8      | 2"         | 1 1/4 | 2.28     |
| 61 G 022  | +2000-14,000 ohms  | 18     | 2 1/2"     | 1 1/4 | 2.84     |
| 61 G 453  | 6000-10,000 ohms   | 8      | 2 1/2"     | 1 1/4 | 2.54     |
| 61 G 404  | *7000-10,000 ohms  | 4      | 2"         | 1 1/2 | 2.20     |
| 61 G 458  | 5K, 10K, 20K ohms  | 15 ma. | 2 1/2"     | 1     | 3.04     |

## FIXED-IMPEDANCE OUTPUT TRANSFORMERS

For a wide variety of audio applications. All have center-tapped primary for push-pull operation.

| Stock No. | Fig. | Primary Imp. | Secondary Imp. | Audio Watts | Mtg. Ctrs.     | Lbs.  | NET EACH |
|-----------|------|--------------|----------------|-------------|----------------|-------|----------|
| 61 G 457  | A    | 4000         | 8/16/32        | 7 1/2       | 3 1/4"         | 1 1/4 | 3.04     |
| 61 G 452  | H    | 60K          | 4/8/15/250/500 | 35          | 2 1/2 x 2 1/4" | 5 1/2 | 7.20     |
| 61 G 456  | A    | 25K          | 4              | 5           | 2"             | 5 1/2 | 1.65     |

## FILTER CHOKES

A Excellent for receivers, low-power transmitters, etc. 1500 v. rms insulation except \*2000 v., †3000 v. Fig. D.

| Stock No. | Hys.    | Ma.         | Res., Ohms | Mtg. Ctrs.     | Wt., Lbs. | NET EACH |
|-----------|---------|-------------|------------|----------------|-----------|----------|
| 61 G 405  | 0.8     | 375         | 25         | 3 1/2"         | 1 1/4     | 2.49     |
| 61 G 479  | *1.0    | 300         | 40         | 3 1/2"         | 1 1/4     | 2.44     |
| 61 G 480  | 1.5     | 10          | 95         | 1 1/2"         | 1         | 1.20     |
| 61 G 406  | 1.5     | 200         | 60         | 2 1/2"         | 3/4       | 1.30     |
| 61 G 481  | 2.0     | 200         | 65         | 3 1/2"         | 1 1/4     | 2.34     |
| 61 G 482  | 2.3     | 150         | 60         | 2 1/2"         | 1         | 1.84     |
| 61 G 483  | *3.0    | 95          | 97         | 2 1/2"         | 1 1/4     | 2.08     |
| 61 G 407  | 3.5     | 50          | 200        | 2 1/2"         | 1 1/4     | 1.18     |
| 61 G 135  | 5.5     | 50          | 330        | 2"             | 1 1/2     | 1.93     |
| 61 G 408  | 7.0     | 50          | 550        | 2"             | 1 1/2     | 1.03     |
| 61 G 484  | 7.0     | 150         | 200        | 3 1/2"         | 2 1/4     | 2.94     |
| 61 G 485  | 8.0     | 85          | 260        | 2 1/2"         | 1 1/2     | 2.06     |
| 61 G 409  | 8.5     | 50          | 400        | 2 1/2"         | 1 1/2     | 0.98     |
| 61 G 139  | †8.5    | 200         | 140        | 2 1/2 x 2 1/2" | 3 1/2     | 5.40     |
| 61 G 409  | 10.5    | 110         | 220        | 3 1/2"         | 2 1/4     | 2.49     |
| 61 G 486  | †12/8/4 | 100/150/200 | 145        | 2 1/2 x 1 1/2" | 2 1/4     | 3.58     |
| 61 G 487  | 13.0    | 65          | 385        | 2 1/2"         | 1         | 1.92     |
| 61 G 138  | 15.0    | 75          | 400        | 3 1/2"         | 1 1/4     | 2.08     |
| 61 G 137  | 16.0    | 50          | 550        | 2 1/2"         | 1         | 1.57     |
| 61 G 488  | 16.0    | 80          | 365        | 2 1/2 x 1 1/2" | 2 1/4     | 3.84     |
| 61 G 489  | 20.0    | 15          | 900        | 2 1/2"         | 3         | 1.64     |

E Variable Isolation Transformer. Rated 150 watts, 115 v. output; 90-250 v. 50-60 cps input. Mtg. ctrs., 3x3 1/4". 9 lbs.

61 G 080. NET ..... \$11.89  
61 G 490. As above. Rated 100 watts, 115 v. output; 105-125 v. 50-60 cps input. Mtg. ctrs., 3x2 1/4". 7 1/2 lbs. NET ..... \$11.85

## MINIATURE INTERCOM AND TRANSCEIVER TRANSFORMERS

A \*Transceiver input, mike and plate to grid. †Intercom input, VC to grid. ‡Line to VC. Av. shpg. wt., 1/2 lb.

| Stock No. | Primary Imp. | Secondary Imp. | Audio Watts | Mtg. Ctrs. | NET EACH |
|-----------|--------------|----------------|-------------|------------|----------|
| 61 G 491  | *200/5000    | 60,000         | 5           | 2 1/2"     | 2.08     |
| 61 G 492  | †4           | 25,000         | 3           | 2"         | 1.65     |
| 61 G 493  | ‡45/50       | 3-4, 6-8       | 3           | 2"         | 1.44     |

## POWER TRANSFORMERS

A complete selection of highly efficient power supply transformers recommended for radio set replacement use, home hobbyists, etc. H shielded; heavy duty 5" flexible cord leads. 2 1/2 plate windings center tapped, except \*half-wave type; for 6AX5, 6X4, 6X5 and similar 6 filament rectifiers and for selenium rectifier. CT 6.3 v. winding except has 2-6.3 v. windings not CT. 110-120 volt, 50-60 cycle primaries.

| Stock No. | Fig. | Plate VCT | Ma. | 5 V at | 6.3 V at | Mtg. Ctrs.     | Wt., Lbs. | NET EACH |
|-----------|------|-----------|-----|--------|----------|----------------|-----------|----------|
| 61 G 410  | D    | *125      | 15  | ....   | +0.6A    | 2"             | 1 1/2     | 1.7      |
| 61 G 411  | A    | 125       | 50  | ....   | +2A      | 3 1/2"         | 1 1/2     | 2.0      |
| 61 G 008  | F    | 250       | 25  | ....   | +1A      | 3 1/2"         | 1         | 2.7      |
| 61 G 461  | H    | 460       | 50  | ....   | +2.5A    | 2 1/2 x 1 1/2" | 2 1/4     | 4.8      |
| 61 G 034  | G    | 480       | 40  | 2A     | 2A       | 2 1/2 x 1 1/2" | 2 1/4     | 4.0      |
| 61 G 427  | H    | 480       | 40  | 2A     | 2A       | 2 1/2 x 1 1/2" | 2 1/4     | 4.0      |
| 61 G 462  | H    | 480       | 55  | 2A     | 2A       | 2 1/2 x 1 1/2" | 3         | 4.4      |
| 61 G 463  | H    | 480       | 70  | ....   | +3A      | 2 1/2 x 1 1/2" | 3         | 4.5      |
| 61 G 464  | H    | 500       | 70  | 2A     | 2.5A     | 2 1/2 x 1 1/2" | 3 1/2     | 5.2      |
| 61 G 465  | H    | 520       | 90  | ....   | +4A      | 2 1/2 x 1 1/2" | 3 1/2     | 5.2      |
| 61 G 444  | G    | 520       | 90  | 3A     | 3A       | 2 1/2 x 2 1/2" | 4         | 5.1      |
| 61 G 412  | G    | 520       | 90  | 2A     | 3A       | 2 1/2 x 2 1/2" | 5         | 5.1      |
| 61 G 466  | H    | 540       | 120 | 3A     | 3.5A     | 2 1/2 x 2 1/2" | 5         | 7.3      |
| 61 G 467  | G    | 550       | 50  | 2A     | 2.5A     | 2 1/2 x 2 1/2" | 3 1/2     | 5.8      |
| 61 G 468  | G    | 600       | 70  | 2A     | 3A       | 2 1/2 x 2 1/2" | 3 1/2     | 6.3      |
| 61 G 469  | G    | 600       | 120 | 3A     | 5A       | 3 1/2 x 2 1/2" | 6         | 7.9      |
| 61 G 041  | G    | 650       | 60  | 2A     | 2.5A     | 2 1/2 x 2 1/2" | 2 1/4     | 4.1      |
| 61 G 413  | H    | 650       | 40  | 2A     | 2A       | 2 1/2 x 1 1/2" | 2 1/4     | 4.1      |
| 61 G 470  | H    | 650       | 55  | 2A     | 2A       | 2 1/2 x 1 1/2" | 2 1/4     | 4.3      |
| 61 G 042  | G    | 650       | 70  | 3A     | 3.5A     | 2 1/2 x 2 1/2" | 4 1/4     | 4.3      |
| 61 G 428  | H    | 650       | 70  | 3A     | 3.5A     | 2 1/2 x 2 1/2" | 4 1/4     | 4.3      |
| 61 G 471  | G    | 650       | 150 | 3A     | 5A       | 3 1/2 x 2 1/2" | 7 1/2     | 7.8      |
| 61 G 414  | H    | 680       | 70  | 2A     | 2.5A     | 2 1/2 x 2 1/2" | 4         | 4.3      |
| 61 G 043  | G    | 700       | 90  | 3A     | 3.5A     | 2 1/2 x 2 1/2" | 4 1/2     | 5.7      |
| 61 G 429  | H    | 700       | 90  | 3A     | 3.5A     | 2 1/2 x 2 1/2" | 4 1/2     | 5.7      |
| 61 G 044  | G    | 700       | 120 | 3A     | 4.7A     | 3 1/2 x 2 1/2" | 5 1/2     | 6.7      |
| 61 G 430  | H    | 700       | 120 | 3A     | 4.7A     | 2 1/2 x 2 1/2" | 5 1/2     | 6.7      |
| 61 G 045  | G    | 750       | 150 | 3A     | 5A       | 3 1/2 x 2 1/2" | 6 1/2     | 8.7      |
| 61 G 431  | H    | 750       | 150 | 3A     | 5A       | 3 1/2 x 2 1/2" | 6 1/2     | 8.7      |
| 61 G 033  | G    | 800       | 200 | 3A     | 5A       | 3 1/2 x 3"     | 8         | 9.0      |
| 61 G 414  | H    | 800       | 200 | 3A     | 5A       | 3 1/2 x 3"     | 7 1/2     | 9.0      |
| 61 G 473  | H    | 1200      | 200 | 3A     | †3A      | 3x3 1/2"       | 9 1/2     | 11.5     |

## FILAMENT TRANSFORMERS

Primaries, 117 v., 50-60 cycle AC. All center-tapped, except †. \*107 tap on primary. ‡Has electrostatic shield.

| Stock No. | Fig. | V      | Amps. | Insul. v. RMS | Size                   | Wt., Lbs. | NET EACH |
|-----------|------|--------|-------|---------------|------------------------|-----------|----------|
| 61 G 478  | A    | 2.5    | 5.0   | 5000          | 2 1/2 x 1 1/2 x 2 1/4" | 1 1/4     | 2.80     |
| 61 G 474  | H    | 2.5    | 10.0  | 2500          | 3 1/2 x 2 1/2 x 2 1/4" | 2 1/4     | 4.00     |
| 61 G 475  | A    | 5.0    | 3.0   | 2500          | 2 1/2 x 1 1/2 x 2"     | 1 1/2     | 2.52     |
| 61 G 028  | A    | 5.0    | 6.0   | 2500          | 2 1/2 x 3 x 2 1/4"     | 1 1/2     | 3.03     |
| 61 G 416  | A    | 6.3    | 0.6   | 1500          | 1 1/2 x 2 1/2 x 1 1/4" | 1 1/4     | 1.43     |
| 61 G 030  | A    | 6.3    | 1.0   | 1500          | 1 1/2 x 2 1/2 x 1 1/4" | 1 1/4     | 1.50     |
| 61 G 119  | A    | 6.3    | 1.2   | 3000          | 1 1/2 x 2 1/2 x 1 1/4" | 1 1/4     | 1.74     |
| 61 G 031  | A    | 6.3    | 3.0   | 2500          | 2 1/2 x 1 1/2 x 2 1/4" | 1 1/2     | 2.40     |
| 61 G 477  | H    | *\$6.3 | 4.0   | 2500          | 3 1/2 x 2 1/2 x 2 1/4" | 2 1/4     | 4.1      |
| 61 G 417  | A    | 6.3    | 6.0   | 2500          | 3 1/2 x 2 1/2 x 2 1/4" | 2 1/2     | 3.92     |
| 61 G 418  | D    | *6.3   | 10.0  | 2500          | 3 1/2 x 2 1/2 x 2 1/4" | 3 1/2     | 4.74     |
| 61 G 420  | A    | 12.6   | 2.0   | 1500          | 2 1/2 x 1 1/2 x 2 1/4" | 1 1/2     | 2.20     |
| 61 G 421  | A    | †25.0  | 1.0   | 1500          | 2 1/2 x 1 1/2 x 2 1/4" | 1 1/2     | 2.20     |
| 61 G 476  | A    | 26.5   | 0.6   | 3000          | 2 1/2 x 1 1/2 x 2"     | 1 1/2     | 2.20     |

## AUDIO TRANSFORMERS

A Pri. ma., 10 max. Single plate to PP grid except, \*single plate to single grid, †impedance or PP plate to PP grids. 1/2 x 1/2". Wt., 1/2 lb.

| Stock No. | Impedance, Ohms | Turns Ratio | Size | Wt., Lbs.              | NET EACH |
|-----------|-----------------|-------------|------|------------------------|----------|
| 61 G 062  | *7000           | 20,000      | 1:3  | 1 1/2 x 2 1/2 x 1 1/2" | 1.47     |
| 61 G 415  | 7000-15K        | 40,000      | 1:3  | 1 1/2 x 2 1/2 x 1 1/2" | 1.74     |
| 61 G 080  | NET             | 10,000      | 1:2  | 1 1/2 x 2 1/2 x 1 1/2" | 1.74     |
| 61 G 459  | 10,000          | 90,000 CT   | 1:3  | 2 1/2 x 1 1/2 x 2"     | 1.74     |
| 61 G 460  | †10,000 CT      | 90,000 CT   | 1:3  | 1 1/2 x 2 1/2 x 1 1/2" | 2.18     |

## HIGH-FIDELITY PUSH-PULL OUTPUT TRANSFORMERS

For use in high-fidelity audio amplifiers. All have screen taps on primary winding for ultra-linear type operation and have a frequency response flat from 15 to 35,000 cps, except \*which do not have screen taps at all have a frequency response flat from 20 to 20,000 cps. All have 4, 8 and 1 ohm secondaries. †Maximum DC in each half of primary.

| Stock No. | Fig. | Watts | P-P Imp. | †Ma | Size                   | Wt., Lbs. | NET EACH |
|-----------|------|-------|----------|-----|------------------------|-----------|----------|
| 61 G 082  | J    | 12    | 8000     | 60  | 3 1/2 x 3 1/2 x 1 1/2" | 2 1/2     | 7.9      |
| 61 G 019  | K    | 18    | 8000     | 65  | 3 1/2 x 3 1/2 x 1 1/2" | 3         | 8.5      |
| 61 G 083  | K    | 24    | 6000     | 75  | 4 1/2 x 3 1/2 x 1 1/2" | 6         | 13.0     |
| 61 G 019  | K    | 30    | 6000     | 100 | 4 1/2 x 3 1/2 x 1 1/2" | 7         | 14.0     |
| 61 G 024  | H    | 12    | 8000     | 60  | 3 1/2 x 2 1/2 x 2 1/4" | 2 1/2     | 6.7      |
| 61 G 058  | A    | *18   | 8000     | 65  | 2 1/2 x 4 x 2 1/4"     | 2 1/2     | 5.3      |
| 61 G 058  | A    | †24   | 6000     | 75  | 3 1/2 x 3 1/2 x 3 1/4" | 6         | 11.3     |
| 61 G 059  | H    | 30    | 6000     | 100 | 3 1/2 x 3 1/2 x 3 1/4" | 6         | 11.8     |



# Knight, Standard and Triad Transformers



## KNIGHT TRANSFORMERS

### 70.7-VOLT LINE-TO-VOICE-COIL TRANSFORMERS

Impedances: 4, 8, 16 ohms, except \*3.2-4, 6-8, †High-fidelity type.

| Stock No. | Fig. | Watt<br>Taps                | Max.<br>Watts | Size      | Lb.<br>Wt. | NET<br>EACH |
|-----------|------|-----------------------------|---------------|-----------|------------|-------------|
| G 081     | P    | 5, 2.5, 1.25, .62, .31      | *5            | 1½x2½x1¼" | ¾          | 1.92        |
| G 422     | T    | 8, 4, 2, 1, 0.5             | *5            | 2½x2½x1¼" | ¾          | 2.54        |
| G 477     | P    | 10, 5, 2.5, 1.25, .625      | *10           | 1½x2½x1¼" | ¾          | 2.51        |
| G 078     | T    | 18, 9, 4.5, 2.25, 1.12, .56 | 18            | 2½x2½x1¼" | 1½         | 2.95        |
| G 079     | P    | 24, 12, 6, 3, 1.5, .75      | 24            | 2½x3½x2¼" | 1½         | 3.54        |
| G 440     | P    | 2, 1, .5                    | *2            | 1½x2½x1¼" | ¾          | 1.93        |
| G 441     | T    | 5, 2.5, 1.25, .625, .31     | *5            | 1½x2½x1¼" | ¾          | 2.53        |
| G 450     | T    | 16, 8, 4, 2, 1, 0.5         | 16            | 2½x3½x2¼" | 2          | 3.89        |

### 25-VOLT LINE-TO-VOICE-COIL TRANSFORMERS

| Stock No. | Fig. | Watt<br>Taps            | Max.<br>Watts | Size      | Lb.<br>Wt. | NET<br>EACH |
|-----------|------|-------------------------|---------------|-----------|------------|-------------|
| G 436     | P    | 2, 1, .5                | *2            | 1½x2½x1¼" | ¾          | 1.89        |
| G 437     | P    | 5, 2.5, 1.25, .625, .31 | *5            | 1½x2½x1¼" | ¾          | 2.20        |
| G 438     | P    | 10, 5, 2.5, 1.25, .625  | *10           | 2½x3½x2¼" | 1½         | 3.3         |
| G 439     | T    | 16, 8, 4, 2, 1, .5      | 16            | 2½x4x2½"  | 2½         | 3.73        |

### STANDARD LINE-TO-VOICE-COIL TRANSFORMERS

100-ohm primary except \*2000/1500/1000/500 and †3000/2000/500/1000/500 ohms. †Fig. T.

| Stock No. | Sec. Imp.<br>Ohms | Audio<br>Watts | Size      | Wt.<br>Lbs. | NET<br>EACH |
|-----------|-------------------|----------------|-----------|-------------|-------------|
| G 442     | 4-8               | *4             | 1½x2½x1¼" | ¾           | 1.70        |
| G 423     | 6-8/3.2           | *5             | 1½x2½x1¼" | ¾           | 1.29        |
| G 425     | 6-8/3.2           | *8             | 1½x2½x1¼" | ¾           | 2.10        |
| G 443     | 4-8               | *12            | 2½x3½x1¼" | 1½          | 2.30        |
| G 451     | 4/8/16            | †10            | 2½x2½x1¼" | 1½          | 2.77        |
| G 424     | 16/8/6/4          | †25            | 2½x2½x1¼" | 1½          | 2.49        |

### 230-TO-115 VOLT AUTOTRANSFORMERS

Well-built step-down transformers for reducing 220-250 volts, 50-60 cycles AC to 110-125 volts. For operating tape recorders, radios, amplifiers, household appliances, etc. Shielded construction. With 8-ft. and plug. Female outlet on case. \*Fig. S.

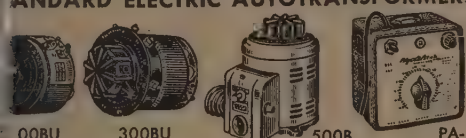
| Stock No. | Watts | Size       | Lb., Lbs. | NET EACH |
|-----------|-------|------------|-----------|----------|
| G 494     | *8    | 3¾x4x1½"   | 1         | 3.00     |
| G 495     | 80    | 3¾x4x3¾"   | 3¼        | 5.70     |
| G 511     | 150   | 4x3¾x3¾"   | 4¾        | 7.20     |
| G 512     | 250   | 4x3¾x4¼"   | 7¾        | 9.45     |
| G 513     | 500   | 4x5¾x6x4¼" | 13        | 13.00    |
| G 434     | 750   | 5½x4¾x5"   | 13¾       | 16.33    |
| G 432     | 1000  | 6x5x5½"    | 14¾       | 20.33    |
| G 435     | 1500  | 6x4½x5½"   | 20        | 24.00    |
| G 433     | 2000  | 6x4½x5½"   | 25        | 27.20    |

### ISOLATION TRANSFORMERS

Isolation Transformers. Reduce shock hazard by isolating test units, or equipment under test, from line. For 115 volts, 50-60 cycle. With 6-ft. cord, plug and output receptacle.

| Stock No. | Watts | Size H.W.D. | Wt., Lbs. | NET EACH |
|-----------|-------|-------------|-----------|----------|
| G 426     | 50    | 3¾x3x3¾"    | 3¾        | 5.67     |
| G 086     | 100   | 4¾x3¾x4"    | 10.00     |          |
| G 087     | 250   | 4¾x3¾x4½"   | 12½       | 17.50    |

### STANDARD ELECTRIC AUTOTRANSFORMERS



Laboratory and industrial applications. Ideal for use in laboratories, school classrooms; for light-dimming applications in homes and institutions, TV rooms, sick rooms; for small motor speed control, rail roading and hobby work. It is also used as the variable AC line control for equipment such as mixers, agitators, centrifuges. Types 100BU, 300BU and 500BU are for back-of-panel mounting. The 100BU mounts on panels up to ¼" thick; Types 300BU and 500BU mount on panels up to ½" thick. PA-1 and PA-3 are housed metal cases ready for bench use; Type 500B has brackets for table mounting. Types PA-1, PA-3 and 500B supplied with pilot light, switch, fuse, cord, plug and receptacle. All are for 110-120 v., 50-60 cycle AC. All except BU types in gray wrinkle finish metal cases.

| Stock No. | Mfr's Type | Output |      |      | Size      | Wt., Lbs. | NET EACH |
|-----------|------------|--------|------|------|-----------|-----------|----------|
|           |            | Volts  | Amps | KVA  |           |           |          |
| G 583     | 100BU      | 0-132  | 1.25 | .165 | 2½x2½x1¾" | 2         | 8.50     |
| G 584     | PA-1       | 0-132  | 1.25 | .165 | 3¾x3¾x3¾" | 6         | 13.50    |
| G 585     | PA-3       | 0-140  | 3    | .400 | 6½x6½x5½" | 10        | 18.75    |
| G 580     | 300BU      | 0-140  | 3.0  | .400 | 3½x3½x1¾" | 6         | 12.50    |
| G 581     | 500BU      | 0-140  | 7.5  | 1.0  | 6½x4¾x5"  | 10        | 23.00    |
| G 582     | 300BU      | 0-140  | 7.5  | 1.0  | 5x4¾"     | 10        | 18.00    |



## TRIAD TRANSFORMERS

Quality transformers widely used in military and commercial applications. Excellent for use in audio circuits.

### POWER TRANSFORMERS

Last letter in Type indicates fig. above. \*CT. For 115 v., 60 cycle AC.

| Stock No. | Mfr's Type | Plate<br>Volts | Filaments<br>Volts | Volts   | Amps      | Mtg. Ctrs. | Lb. Wt. | NET EACH |
|-----------|------------|----------------|--------------------|---------|-----------|------------|---------|----------|
| 61 G 906  | R-2C       | 135            | 15                 | 6.3     | 2         | 1½"        | 1       | 4.05     |
| 64 G 936  | R-3A       | 500*           | 20                 | 6.3*    | 9         | 1½x1½"     | 1¼      | 6.00     |
| 64 G 976  | R-4A       | 500*           | 40                 | 6.3*    | 2.7       | 2½x1½"     | 1¼      | 6.15     |
| 64 G 977  | R-5A       | 600*           | 65                 | 6.3*    | 2         | 2½x1½"     | 2¼      | 6.90     |
| 61 G 900  | R-6A       | 480*           | 50                 | 5       | 2         | 2½x1½"     | 2¼      | 7.32     |
| 64 G 978  | R-7A       | 600*           | 50                 | 5       | 2         | 2½x1½"     | 2¼      | 7.38     |
| 61 G 902  | R-8A       | 500*           | 75                 | 5       | 2         | 2½x2½"     | 3       | 7.68     |
| 64 G 979  | R-9A       | 600*           | 75                 | 5       | 2         | 2½x2½"     | 3¼      | 8.49     |
| 61 G 903  | R-10A      | 525*           | 90                 | 5       | 2         | 2½x2½"     | 4¼      | 9.91     |
| 64 G 986  | R-11A      | 700*           | 90                 | 5       | 3         | 2½x2½"     | 4¼      | 9.27     |
| 61 G 904  | R-12A      | 550*           | 110                | 5       | 2         | 2½x2½"     | 4¼      | 9.33     |
| 64 G 987  | R-14A      | 700*           | 125                | 5       | 3         | 2½x2½"     | 6       | 10.41    |
| 61 G 905  | R-16A      | 700*           | 160                | 5       | 3         | 2½x3¼"     | 7       | 11.67    |
| 61 G 906  | R-18A      | 750*           | 175                | 5       | 3         | 2½x3¼"     | 8¼      | 13.66    |
| 61 G 907  | R-20A      | 700*           | 200                | 5       | 3         | 2½x3¼"     | 8¼      | 13.30    |
| 61 G 908  | R-21A      | 800*           | 200                | 5       | 3         | 2½x3¼"     | 9¼      | 14.31    |
| 61 G 909  | R-23A      | 230*           | 40                 | 6.3     | 1.5       | 1½x1½"     | 1¼      | 5.85     |
| 61 G 910  | R-30X      | 135            | 50                 | 6.3     | 1.5       | 3¼"        | 1¼      | 4.89     |
| 61 G 911  | R-54X      | 115            | 15                 | 5*      | 4         | 2½"        | 1       | 3.63     |
| 61 G 912  | R-71A      | 900*           | 250                | 5*      | 4         | 3x3¾"      | 12      | 17.01    |
| 61 G 914  | R-73B      | 135            | 20                 | 6.3*    | 2.5       | 2½x2½"     | 2¼      | 8.67     |
| 61 G 915  | R-63A      | 135            | 20                 | 0/15    | 5/6       | 22.5x30    | 6/6     | 6.90     |
| 61 G 916  | R-68A      | 800*           | 30                 | 5       | 2         | 6.3x6.3    | 1/2     | 10.32    |
| 61 G 917  | R-81C      | 800*           | 125                | 5       | 3         | 6.3        | 6       | 16.86    |
| 61 G 918  | R-43C      | 1600           | 3                  | 2.5/2.5 | 1.75/1.75 | 6.3x6.3    | 1/3     | 10.32    |
|           |            |                |                    | 2.5/2.5 | 1/3       |            |         |          |

### FILAMENT TRANSFORMERS

For operation from 115 v., 60 cycle AC.

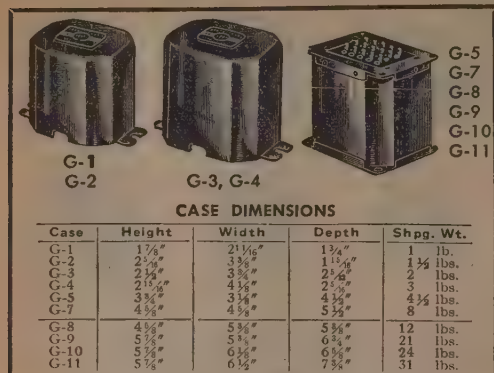
| Stock No. | Type  | Sec. V. | Sec. Amp. | Ins. V. | Size (HWD)   | Lbs. | NET   |
|-----------|-------|---------|-----------|---------|--------------|------|-------|
| 61 G 931  | F-1X  | 2.5CT   | 3         | 1500    | 1½x2½x1¼"    | ¾    | 2.61  |
| 61 G 932  | F-3X  | 2.5CT   | 10        | 1500    | 2½x2½x2¼"    | 1¼   | 3.42  |
| 61 G 933  | F-5U  | 2.5CT   | 10        | 7500    | 3x2½x2½"     | 2    | 5.67  |
| 61 G 934  | F-6X  | 2.5CT   | 6         | 2500    | 1½x3x2½"     | 1¼   | 3.42  |
| 61 G 935  | F-7X  | 5CT     | 3         | 1500    | 1½x3x3x2"    | 1¼   | 3.57  |
| 61 G 936  | F-8X  | 5CT     | 6         | 1500    | 2½x3½x2½"    | 1¼   | 4.17  |
| 64 G 937  | F-13X | 6.3CT   | 6         | 1500    | 1½x2½x1½"    | ¾    | 2.10  |
| 64 G 938  | F-14X | 6.3CT   | 1.2       | 1500    | 1½x2½x1½x1½" | ¾    | 2.22  |
| 64 G 955  | F-16X | 6.3CT   | 3         | 1500    | 1½x3x3x2"    | 1¼   | 3.33  |
| 64 G 956  | F-18A | 6.3CT   | 6         | 1500    | 3¾x2¾x2½"    | 2¼   | 6.15  |
| 64 G 957  | F-21A | 6.3CT   | 10        | 1500    | 3¾x3¾x3¼"    | 3¼   | 7.38  |
| 64 G 958  | F-22A | 6.3CT   | 20        | 2000    | 4x3¼x4½"     | 7    | 10.56 |
| 64 G 959  | F-25X | 12.6CT  | 1.5       | 1500    | 2½x3¾x2"     | 1¼   | 3.57  |
| 61 G 937  | F-26X | 12.6CT  | 2.5       | 1500    | 2½x3¾x2½"    | 2¼   | 4.17  |
| 64 G 960  | F-40X | 24CT    | 1         | 1500    | 1½x3x3x2½"   | 1¼   | 3.39  |
| 61 G 938  | F-41X | 25.2CT  | 1         | 22      | 5x4½x2½"     | 2¼   | 5.16  |
| 64 G 935  | F-23U | 10CT    | 7         | 1000    | 3¾x2½x3¾"    | 4    | 7.17  |

### DRIVER, INTERSTAGE, AND INPUT TRANSFORMERS

300-3000 cps except \*30-15,000; †70-7000; 50-10,000. †Spade-lug mtg. Last letter in Type No. identifies illustration. #Ohms, except as indicated.

| Stock No. | Mfr's Type | Application          | Primary         | Turns Ratio       | Mtg. Ctrs. | Lb. Wt. | NET EACH |
|-----------|------------|----------------------|-----------------|-------------------|------------|---------|----------|
| 61 G 989  | A-1X       | line/SB mike to grid | 100             | 31:4:1            | 1½"        | ¼       | 2.04     |
| 61 G 925  | A-3X       | line/OB mike to grid | 400 CT          | 15:8:1            | 1½"        | ¼       | 2.22     |
| 61 G 926  | A-4X       | line to grid         | 500/2000        | 12:1              | 1½"        | ¼       | 2.67     |
| 61 G 927  | A-5X       | SB mike-p.p. grids   | 100             | 100:1             | 2½"        | ½       | 2.97     |
| 61 G 928  | A-6X       | speaker v.c. to grid | 8/32            | 79:1              | 1¼"        | ¼       | 2.25     |
| 61 G 929  | A-71       | speaker v.c. to grid | 3/2             | 124:1             | 1½"        | ¼       | 5.58     |
| 61 G 930  | A-91*      | line/mike to grid    | 600/250/50      | 12:1              | 1½"        | ¼       | 10.05    |
| 64 G 934  | A-21X      | SB/mike to plate     | 100 & 1500      | 11:1              | 2½"        | ¼       | 2.37     |
| 61 G 920  | A-31X      | plate to p.p. grids  | 10,000          | 1:3               | 2½"        | 1       | 3.30     |
| 61 G 921  | A-81X      | driver (30, 1H4)     | 15 ma. in Pri.  | 2.66:1, ½ sec.    | 1¼"        | ¼       | 2.13     |
| 61 G 922  | A-83X†     | driver (6F6, 42, 45) | 40 ma. in Pri.  | 3.33:1, ½ sec.    | 2¼"        | ¼       | 2.58     |
| 61 G 922  | A-85X†     | driver (6F6, 42, 45) | 100 ma. in Pri. | 2.66:1, ½ sec.    | 2¼"        | ¼       | 3.06     |
| 61 G 923  | A-89X      | p.p. plates to grids | 100 ma. each    | 3.1:1.8:1, ½ sec. | 2½"        | 2¼      | 7.02     |

# UTC Transformers



CASE DIMENSIONS

| Case | Height | Width  | Depth  | Shpg. Wt.  |
|------|--------|--------|--------|------------|
| G-1  | 2 1/8" | 2 1/8" | 1 1/4" | 1 lb.      |
| G-2  | 2 1/8" | 3 1/8" | 1 1/4" | 1 1/2 lbs. |
| G-3  | 2 1/8" | 3 1/8" | 2 1/8" | 2 lbs.     |
| G-4  | 2 1/8" | 4 1/8" | 2 1/8" | 3 lbs.     |
| G-5  | 3 1/8" | 4 1/8" | 3 1/8" | 4 1/2 lbs. |
| G-7  | 4 1/8" | 4 1/8" | 5 1/8" | 8 lbs.     |
| G-8  | 4 1/8" | 5 1/8" | 5 1/8" | 12 lbs.    |
| G-9  | 5 1/8" | 5 1/8" | 6 1/8" | 21 lbs.    |
| G-10 | 5 1/8" | 6 1/8" | 6 1/8" | 24 lbs.    |
| G-11 | 5 1/8" | 6 1/8" | 7 1/8" | 31 lbs.    |

## UNIVERSAL OUTPUTS—TO LINE AND VOICE COIL

Secondary impedances: 500, 15, 8, 2 ohms.

| Stock No. | Type | Primary Impedance            | Watts | Case | NET  |
|-----------|------|------------------------------|-------|------|------|
| 62 G 764  | S-14 | 2500, 4000, 7000, 10,000     | 10    | G-2  | 6.47 |
| 62 G 765  | S-15 | PP tubes: 4000, 5000, 10,000 | 12    | G-2  | 7.06 |
| 62 G 766  | S-16 | PP 3000, 6000, 9000, 10,000  | 30    | G-4  | 8.23 |

## FILTER, SWINGING AND AUDIO CHOKES

| Stock No. | Type | Henrys                                  | Ma            | Ohms | Insul.  | Case | NET   |
|-----------|------|-----------------------------------------|---------------|------|---------|------|-------|
| 62 G 726  | S-25 | 30                                      | 30            | 800  | 1500 V. | G-2  | 3.82  |
| 62 G 727  | S-26 | 12                                      | 60            | 250  | 1500 V. | G-2  | 3.82  |
| 62 G 728  | S-27 | 25                                      | 75            | 350  | 1500 V. | G-4  | 5.00  |
| 62 G 729  | S-28 | 20                                      | 100           | 350  | 1500 V. | G-4  | 6.17  |
| 62 G 730  | S-29 | 6                                       | 175           | 90   | 1500 V. | G-4  | 5.00  |
| 62 G 731  | S-30 | 4/20                                    | 175           | 90   | 1500 V. | G-4  | 5.00  |
| 62 G 732  | S-31 | 6                                       | 225           | 100  | 2700 V. | G-5  | 6.72  |
| 62 G 733  | S-32 | 4/20                                    | 225           | 100  | 2700 V. | G-5  | 6.72  |
| 62 G 751  | S-33 | 8                                       | 300           | 100  | 4000 V. | G-7  | 9.11  |
| 62 G 734  | S-34 | 4/20                                    | 300           | 100  | 4000 V. | G-7  | 9.41  |
| 62 G 735  | S-35 | 8                                       | 400           | 60   | 5000 V. | G-8  | 11.76 |
| 62 G 736  | S-36 | 4/20                                    | 400           | 60   | 5000 V. | G-8  | 11.76 |
| 62 G 737  | S-37 | 8                                       | 550           | 60   | 6000 V. | G-8  | 14.70 |
| 62 G 738  | S-38 | 4/20                                    | 550           | 60   | 6000 V. | G-8  | 14.70 |
| 61 G 788  | S-80 | 50/10 mhy.                              |               |      | 500 V.  | G-1  | 3.82  |
| 61 G 789  | S-81 | 100/8 mhy., 2.5A, .05<br>250/8 mhy., 5A | 1.75A<br>0.15 |      | 1500 V. | G-3  | 5.88  |

## PLATE TRANSFORMERS—115 V., 50-60 CYCLES

| Stock No. | Type | Sec. VCT       | DC Ma | Case | NET   |
|-----------|------|----------------|-------|------|-------|
| 62 G 744  | S-44 | 1150/1080      | 500   | G-9  | 25.28 |
| 62 G 745  | S-45 | 1800/1500      | 200   | G-9  | 3.29  |
| 62 G 746  | S-46 | 2000/1500      | 300   | G-9  | 23.52 |
| 62 G 748  | S-47 | 3000/2500/2000 | 300   | G-10 | 32.34 |
| 62 G 749  | S-48 | 3000/2500/2000 | 500   | G-11 | 38.22 |
| 62 G 750  | S-49 | 4200/3600/3000 | 300   | G-11 | 35.28 |

## UNIVERSAL MODULATION TRANSFORMERS

| Stock No. | Type | Audio Power | Case | NET   |
|-----------|------|-------------|------|-------|
| 62 G 771  | S-18 | 12 watts    | G-3  | 7.06  |
| 62 G 772  | S-19 | 30 watts    | G-4  | 9.11  |
| 62 G 773  | S-20 | 45 watts    | G-5  | 14.70 |
| 62 G 775  | S-22 | 250 watts   | G-9  | 32.34 |

## SINGLE-SECONDARY FILAMENT TRANSFORMERS

All primaries tapped at 105, 115 volts, 50-60 cycles. \*Tapped sec.

| Stock No. | Type  | Secondary (CT)    | Ins. V. | Case | NET   |
|-----------|-------|-------------------|---------|------|-------|
| 62 G 704  | S-54  | 5V @ 4A           | 2500    | G-3  | 5.59  |
| 62 G 705  | S-55  | 6.3V @ 3A         | 1500    | G-3  | 3.29  |
| 62 G 707  | S-57  | 2.5V @ 10A        | 10000   | G-5  | 8.82  |
| 62 G 708  | S-58  | 2.5V @ 20A        | 10000   | G-5  | 9.70  |
| 62 G 709  | S-59  | 5V @ 13A          | 5000    | G-5  | 9.11  |
| 62 G 710  | S-60  | 5V @ 22A          | 10000   | G-7  | 12.94 |
| 62 G 711  | S-61* | 7.5, 6.3V @ 10A   | 3000    | G-5  | 9.11  |
| 62 G 712  | S-62  | 10V @ 10A         | 3000    | G-5  | 9.11  |
| 62 G 713  | S-63* | 14, 12, 11V @ 10A | 5000    | G-7  | 12.94 |

## MULTIPLE-SECONDARY FILAMENT TRANSFORMERS

Have primary tapped for 105 and 115 volts, 50-60 cycles AC. Secondary insulation is test rated at 3000 volts rms. Housed in G-5 type case.

| Stock No. | Type | Filament 1 CT | Filament 2 CT | NET   |
|-----------|------|---------------|---------------|-------|
| 62 G 717  | S-67 | 5V @ 6A       | 6.3V @ 5A     | 10.00 |
| 62 G 720  | S-70 | 6.3V @ 5A     | 6.3V @ 5A     | 10.00 |

## OSCILLOSCOPE TRANSFORMER

Type H-198. Shielded oscilloscope transformer with 800, 1600 or 2400 v. AC secondary output. Provides 1000, 2000 or 3000 v. DC at 5 ma. 1.25 v. filament rated 200 ma connected to one end HV winding, 6.3 v. filament rated .6 amps. Insulation rated 5.2 KV. 25ga. 3/4" x 4" x 4" mtg. crs. 2 1/2" x 1 1/2". 4 1/2 lbs.  
61 G 793. NET... 26.46

## OUNCER AUDIO UNITS



Weigh only 1 ounce!—for all compact applications. Response characteristics are: ±1 db 30-20,000 cps, except 0-14, 0-13 and units carrying DC, which are for voice from 150 to 4,000 cps; ±100-20,000 cps. Maximum operating level, 0 db. Sealed in aluminum housings. 7/8" diameter, by 1 1/2" high, except 1 1/4" dia. 1 1/2" high. Mount by two 2-50 screws on 1/4" centers opposite terminals. Shpg. wt., 4 oz.

| Stock No. | Type  | Primary Impedance                    | Sec. Imp.  | NET   |
|-----------|-------|--------------------------------------|------------|-------|
| 62 G 780  | 0-1   | 50, 200-250, 500-600                 | 50,000     | 7.64  |
| 62 G 781  | 0-2   | 50, 200-250, 500-600                 | 50,000 CT  | 7.64  |
| 62 G 782  | 0-3   | 7.5-30                               | 50,000     | 7.55  |
| 62 G 783  | 0-4   | 15,000                               | 60,000     | 6.47  |
| 62 G 784  | 0-5   | 15,000 DC in Pri.                    | 60,000     | 6.47  |
| 62 G 785  | 0-6   | 15,000                               | 95,000 CT  | 7.33  |
| 62 G 786  | 0-7   | 15,000 DC in Pri.                    | 95,000 CT  | 7.33  |
| 62 G 787  | 0-8   | 15,000                               | 150        | 7.64  |
| 62 G 788  | 0-9   | 15,000 DC in Pri.                    | 200-250    | 7.64  |
| 62 G 789  | 0-10  | 30,000 plate to plate                | [500-6000] | 8.23  |
| 62 G 790  | 0-12  | 50, 200-250                          | 6000 ohms. | 7.64  |
| 62 G 793  | 0-13  | Reactor: 300 hys. at 0 DC;           | 6000 ohms. | 6.17  |
| 62 G 791  | 0-14  | 200                                  | 4 megohm   | 7.35  |
| 62 G 794  | 0-16  | 250 CT                               | 50,000     | 10.00 |
| 62 G 795  | 0-18  | 10,000/2500                          | 2000/500   | 7.64  |
| 62 G 494  | 0-19† | 10,000/2500                          | 4000/1000  | 7.64  |
| 62 G 495  | 0-20† | 1500 CT                              | 500/125    | 6.17  |
| 62 G 496  | 0-21† | 2000 CT; 4000 CT                     | 8; 16      | 5.29  |
| 61 G 762  | 0-23  | Reactor: 7 hys. at 3 ma DC; 230 ohms | 10,000 CT  | 5.00  |
| 61 G 765  | 0-26† | 10,000 CT                            | 10,000 CT  | 7.94  |
| 61 G 766  | 0-27† | 10,000 CT                            | 500/125    | 8.23  |
| 61 G 769  | 0-30† | 500/125                              | 500/125    | 7.64  |
| 62 G 492  | 0-17  | Mumetal Shield; fits any Ouncer unit |            | 1.47  |



## SUB AND SUB-SUBCOUNCER TRANSFORMERS

For miniature equipment. Frequency response, ±3 db 200-5000 cps. Sub-ouncer size. 1/2" x 1/2" x 1/2". Wt. 1/2 oz. Sub-ouncer size. 1/2" x 1/2" x 1/2". Wt. 1/2 oz. \*81, †251, ‡501, †12501, ‡2675 ohms DC resistance. \*4400 ohms. Av. shpg. wt., 2 oz.

## SUB-OUNCER TRANSFORMERS

| Stock No. | Type  | Use                   | Pri. Imp.  | Ma.    | Sec. Imp. | NET  |
|-----------|-------|-----------------------|------------|--------|-----------|------|
| 62 G 210  | TSO-1 | Input                 | 200, 50    | 0      | 250K      | 3.53 |
| 62 G 211  | SO-2  | Audio 1:3             | 10,000     | 0-2.5  | 90K       | 3.23 |
| 62 G 212  | SO-3  | Pl. to line           | 10,000     | 3, 1.5 | 200, 500  | 3.23 |
| 62 G 213  | SO-4  | Output                | 30,000     | 1      | 50        | 2.94 |
| 62 G 214  | SO-5  | Reactor               | 50 hys. @  | 1#     |           | 3.82 |
| 62 G 215  | SO-6  | Output                | 100,000    | 0.5    | 60        | 3.82 |
| 62 G 216  | SO-7  | Interstage            | 20K, 30K   | 0.5    | 800, 1200 | 2.94 |
| 62 G 217  | SO-8  | Transistor to PP sec. | 10K        | 1      | 2000 CT   | 3.53 |
| 62 G 218  | SO-9  | PP Transistor to VC   | 500 CT     | 0      | 3.2       | 3.53 |
| 62 G 497  | SO-10 | Transistor to VC      | 2K CT      | 4      | 8         | 3.53 |
| 61 G 773  | SO-11 | Transistor            | 400,500CT  | 8      | 400,500   | 4.12 |
| 61 G 774  | SO-12 | Interstage            | 400,500CT  | 8      | 120/150   | 4.12 |
| 61 G 775  | SO-13 | Transistor            | 400,500CT  | 8      | 40/50     | 4.12 |
| 61 G 776  | SO-14 | Interstage            | 80, 100 CT | 16     | 32/40     | 4.12 |

## SUB-OUNCER TRANSFORMERS

| 62 G 236 | †SSO-1  | Input                                                       | 200, 50    | 0      | 250K      | 4.41 |
|----------|---------|-------------------------------------------------------------|------------|--------|-----------|------|
| 62 G 237 | SSO-2   | Interstage 1:3                                              | 10,000     | 0-25   | 90K       | 4.70 |
| 62 G 238 | SSO-3   | Pl. to line                                                 | 10K, 25K   | 3, 1.5 | 200, 200  | 4.12 |
| 62 G 239 | SSO-4   | Output                                                      | 30,000     | 1      | 50        | 3.82 |
| 62 G 240 | SSO-5   | Reactor                                                     | 50 hys @   | 1**    |           | 3.82 |
| 62 G 241 | SSO-6   | Output                                                      | 100,000    | 0.5    | 60        | 4.12 |
| 62 G 242 | SSO-7   | Transistor                                                  | 20K, 30K   | 0.5    | 800, 1200 | 3.23 |
| 62 G 229 | SSO-8   | Transistor to PP sec.                                       | 10K        | 1      | 2000 CT   | 3.53 |
| 62 G 246 | SSO-10  | Transistor to VC                                            | 500 CT     | 0      | 3.2       | 3.53 |
| 62 G 249 | SSO-13  | Crystal to Transistor                                       | 10K        | 2      | 3.2       | 2.94 |
| 62 G 499 | †SSO-15 | Transistor                                                  | 200K       | 0      | 1000      | 4.41 |
|          |         | Transistor                                                  | 20K CT     | 1      | 800 CT    |      |
|          |         | Interstage                                                  | 30K CT     | 1      | 1200 CT   | 4.12 |
| 61 G 778 | SSO-17  | Output                                                      | 10K, 12.5K | 2      | 500,600CT | 3.23 |
| 61 G 780 | SSO-19  | Output                                                      | 500 CT     | 10     | 600 CT    | 3.23 |
| 61 G 781 | SSO-20  | Output                                                      | 1.5K CT    | 7      | 600 CT    | 4.70 |
| 61 G 782 | SSO-21  | Crystal Chopper                                             | 200K CT    | 0      | 1000 CT   | 3.23 |
| 61 G 783 | *SSO-22 | Interstage                                                  | 12K CT     | 4      | 1500 CT   | 3.82 |
|          |         |                                                             | 10K CT     | 4      | 1800 CT   |      |
| 61 G 784 | SSO-23  | Reactor: 8 hys. at 2 ma DC; 4 hys. at 5 ma DC, 650 ohms     |            |        |           | 2.94 |
| 61 G 785 | SSO-24  | Reactor: 3.5 hys. at 2 ma DC; 1.5 hys. at 5 ma DC, 160 ohms |            |        |           | 2.94 |

## VARIMATCH MODULATION UNITS

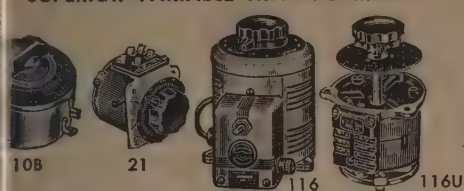
The UTC Varimatch transformer eliminates the power loss and high distortion caused by impedance matching of RF load to a class B modulation. Through use of a combination of tapped windings, unit affords an extremely wide range in impedance matching. Vacuum impregnated and sealed against moisture. Primary imp., from 500 to 20,000 ohms; secondary imp., from 30,000 to 300 ohms. Maximum audio ratings: CVM-0, 12 w. CVM-1, 30 w.; CVM-2, 40 w. \*Maximum watt. Shpg. wt., CVM-0, 3 1/2 lbs.; CVM-1, 6 1/2 lbs.; CVM-2, 11 lbs.

| Stock No. | Type  | Class C Input* | Size            | NET   |
|-----------|-------|----------------|-----------------|-------|
| 63 G 069  | CVM-0 | 25             | 3 3/4" x 3 3/4" | 10.29 |
| 63 G 070  | CVM-1 | 60             | 3 1/2" x 3 1/2" | 13.22 |
| 63 G 071  | CVM-2 | 125            | 4 1/2" x 5 1/2" | 17.64 |



# UTC, Superior, Ohmite and Sola Transformers

## SUPERIOR VARIABLE TRANSFORMERS



stat variable autotransformers of toroidal core design with movable tap which rotates to deliver a continuously adjustable output voltage from AC power lines. Quality voltage controls that feature over-regulation, conservative ratings, zero waveform distortion, rugged action, and smooth control. Deliver adjustable output voltage AC line output variable from zero to above input line voltage. Voltage change from no load to full load. Maximum current can apply over full range of output voltage. Types 10B, 21, and 116U in "L" terminal which allows connecting in the field to limit output to be applied voltage. Mountings: P indicates behind panel mount—indicates general utility. Rated for 50°C. temperature rise under load. All for 110-120 v. AC inputs. Frequency range is 50-60 cycles, 60 cycles only. Sizes shown on types 10B, 21, and 116U are on back of panel and diameter; for type 116, sizes are overall height. Meter. Type 116 has on-off switch, line cord and plug, fuse and ard, AC output receptacle.

| ck  | Mfr's Type | OUTPUT Volts | Amps | KVA   | Mtg. | Size              | Wt. Lbs. | NET EACH |
|-----|------------|--------------|------|-------|------|-------------------|----------|----------|
| 536 | 10B*       | 0-132        | 1.75 | 0.165 | P    | 2 1/2x2 1/2x3 1/2 | 2 1/2    | 8.50     |
| 163 | 21         | 0-140        | 3.75 | 0.5   | P    | 3 1/2x4 1/2x5 1/2 | 6 1/2    | 12.50    |
| 225 | 116        | 0-140        | 7.5  | 1.0   | P    | 6 1/2x4 1/2x5 1/2 | 12       | 24.00    |
| 524 | 116U       | 0-140        | 7.5  | 1.0   | P    | 5x4 1/2x5 1/2     | 11       | 18.00    |

## SUPERIOR "FLEXIFORMER"

**TP160.** A completely self-contained current transformer and multiple source of AC for use in all one versatile unit. For use in engineering laboratories, shops, classrooms, and workshops, etc. Especially useful where amperage at low voltage is required. Can be used for testing the current carrying capacity of contacts, connectors, relays, circuit breakers, etc. Eliminate the job of obtaining transformers for each new job. Primary is of a strip-wound silicon-steel core with a coil of 400 turns of copper wire. Core is enclosed in a plastic case with coded, 5-way binding posts for relative polarity identification. When used as a source of AC voltage, center opening permits user to handle the proper number of secondary winding turns to obtain desired voltage. Output, 150 VA max. Input is for 110-120 v., 50-60 AC. When used as a current transformer, unit serves as secondary. Current carrying conductor is passed through the center coil. Maximum continuous primary current, 400 amps. 1000 psi/sec. rate. Permits ammeter readings of 1% accuracy at 60 cycles of current as high as 400 amps. Supplied with reference chart and complete instructions. Shpg. wt., 5 1/2 lbs. **25.00**

## OHMITE VARIABLE TRANSFORMERS



**VT8.** Unique core design permits it to deliver 8 amperes at any brush setting—even at full over-voltage. Rugged internal stop eliminates possibility of damage when torque is applied at rotation limits. Output voltage 120 v., 60 cycle. Output voltage 0-132 v. Maximum amps, 1.5. Angle of rotation 320°. Visible direct reading dial. With fused knob. Size: 2 1/2". Shpg. wt., 2 1/2 lbs. **8.50**

**VT2N.** As above, but 0-120 v., 1.8 amp. **9.00**

**VT4.** Delivers 3.5 amperes at any brush setting. Designed for mounting on panel or table. Input voltage 120 v., 60 cycles. Output voltage 0-140/0-120 v. Maximum amps, 3.5. Angle of rotation, 324°. Size, 3 1/2". Shpg. wt., 5 1/2 lbs. **12.50**

**VT8G.** As above, but 0-120 v., 4.75 amps. **13.00**

**VT4N.** As above, but 0-120 v., 4.75 amps. **13.00**

**VT8.** Has all the features of VT4 including base plate that permits 3-or-4 hole mounting. Delivers 7.5 ampere maximum output. Input voltage 120 v., 60 cycles. Output v., 0-140/0-120 v. Maximum amps, 7.5. Rotation, 324°. 4 1/2x4 1/2x5 1/2". 10 1/2 lbs. **18.00**

**VT8-G.** As above, but in deluxe carrying case with over-voltage protection switch, line cord, output receptacle, handle that converts into circuit breaker, 7 1/2x5 1/2x5 1/2". Shpg. wt., 14 1/2 lbs. **28.50**

## UTC TRANSFORMERS

### ULTRA-COMPACT HIGH-FIDELITY AUDIOS



Max. level, +15 dbm, except +10, \*Multiple shield. Response: A-10, A-11, A-12, A-16, A-18, = 2 db, 20,000 cps; A-15, A-19, A-23, A-25, A-37, = 7 db, 40-20,000 cps; A-20, = 2 db, 10-50,000 cps; A-21, = 2 db, 30-30,000 cps; A-24, A-26, = 2 db, 20-40,000 cps; A-34, A-35, = 2 db, 30-20,000 cps. 2x1 1/2x1 1/2 case. Av. shpg. wt., 3/4 lbs.

| Stock No. | Mfr's Type | Pri. Imp., Ohms                    | Sec. Imp., Ohms | NET EACH |
|-----------|------------|------------------------------------|-----------------|----------|
| 62 G 820  | A-10       | 50, 125-150, 200-250, 353, 500-600 | 50K             | 12.94    |
| 62 G 821  | A-11*      | 50, 125-150, 200-250, 353, 500-600 | 80K P.P.        | 17.76    |
| 62 G 822  | A-12       | Same as A-10                       | 80K 2 sect.     | 11.76    |
| 62 G 864  | A-15†      | 10K-2.5K                           | 500-20K         | 9.70     |
| 62 G 824  | A-16       | 15K                                | 60K 2:1         | 9.70     |
| 62 G 825  | A-18       | 15K (Split)                        | 80K P.P. 2:3:1  | 11.76    |
| 62 G 826  | A-19       | 15K—5 ma DC                        | 80K P.P. 2:3:1  | 11.76    |
| 62 G 828  | A-21*      | Same as A-10                       | Same as Pri.    | 14.11    |
| 62 G 828  | A-21*      | 50, 200-250, 500-600               | Same as Pri.    | 11.76    |
| 62 G 868  | A-22†      | 500                                | 125-500, split  | 9.70     |
| 62 G 873  | A-23†      | 500                                | 4-16, split     | 9.70     |
| 62 G 777  | A-24       | 15K                                | As A-10 pri.    | 12.94    |
| 62 G 778  | A-25       | 15K—8 ma DC                        | As A-10 pri.    | 12.94    |
| 62 G 779  | A-26       | 30K P. to P.                       | As A-10 pri.    | 12.94    |
| 61 G 794  | A-34       | 25,000—2500 split                  | 500-125 split   | 10.00    |
| 61 G 795  | A-35       | 10,000—2500 split                  | 500-125 split   | 9.70     |
| 61 G 797  | A-37       | 500-125 split                      | 50-12.5 split   | 9.41     |
| 62 G 874  | A-33       | Mumetal shield; for any of above   |                 | 2.65     |

## "DO-TS" TRANSISTOR TRANSFORMERS

Doct-100 miniature transistor transformers feature low distortion, excellent response. Moisture-proof case. Ideal for printed circuits. 3/16x3/16" long. Shpg. wt., 1 oz.

| Stock No. | Mfr's Type | Application                                | Pri. Imp., Ohms | Sec. Imp., Ohms   | NET EACH |
|-----------|------------|--------------------------------------------|-----------------|-------------------|----------|
| 62 G 686  | DO-T1      | Interstage                                 | 20K-30K         | 800-1200          | 5.88     |
| 62 G 687  | DO-T2      | Output                                     | 500-600         | 50-60             | 5.29     |
| 62 G 688  | DO-T3      | Output                                     | 1K-12K          | 50-60             | 5.29     |
| 62 G 689  | DO-T4      | Output                                     | 600             | 3.2               | 5.29     |
| 62 G 690  | DO-T5      | Output                                     | 1.2K            | 3.2               | 5.29     |
| 62 G 692  | DO-T6      | Input                                      | 1K              | 1K                | 6.47     |
| 62 G 694  | DO-T8      | Reactor                                    | 200K            | 3.5 hys @ 2 ma DC | 4.70     |
| 62 G 694  | DO-T9      | Out. Div.                                  | 10K-12.5K       | 500-600           | 6.47     |
| 62 G 695  | DO-T10     | Driver                                     | 10K-12.5K       | 1.2K-1.5K         | 6.47     |
| 62 G 696  | DO-T11     | Driver                                     | 10K-12K         | 2K-2.5K           | 6.47     |
| 62 G 876  | DO-T15     | S/P/P Output                               | 800-1070        | 12-16             | 5.88     |
| 62 G 878  | DO-T17     | Output                                     | 1.5K            | 12-16             | 5.88     |
| 63 G 088  | DO-T18     | S/P/P Output                               | 7.5K-10K        | 12-16             | 6.17     |
| 63 G 088  | DO-T19     | Output                                     | 300             | 600               | 5.88     |
| 63 G 089  | DO-T20     | Output                                     | 500             | 600               | 5.88     |
| 63 G 090  | DO-T21     | Output                                     | 900             | 600               | 5.88     |
| 63 G 091  | DO-T22     | Output                                     | 1.5K            | 600               | 5.88     |
| 63 G 092  | DO-T23     | Interstage                                 | 20K-30K         | 800-1.2K          | 7.64     |
| 63 G 093  | DO-T24     | Input                                      | 200K            | 1K                | 7.35     |
| 63 G 094  | DO-T25     | Interstage                                 | 10K-12K         | 1.5K-1.8K         | 7.06     |
| 63 G 095  | DO-T26     | Reactor 6 hys @ 2 ma DC                    |                 |                   | 5.59     |
| 63 G 096  | DO-T27     | Reactor 1.25 hys @ 2 ma DC                 |                 |                   | 4.70     |
| 61 G 757  | DO-T28     | Reactor 3 hys @ 4 ma DC, 15 hys @ 20 ma DC |                 |                   | 4.70     |
| 61 G 757  | DO-T29     | S/P/P Output                               | 1.06K-1.33K CT  | 3.2-4             | 5.88     |
| 61 G 760  | DO-T30     | Output                                     | 10K-12K CT      | 10K-12K CT        | 7.35     |
| 63 G 284  | DO-T37     | Interstage                                 | 2K-2.5K CT      | 8K-10K split      | 7.64     |
| 63 G 284  | DO-T38     | Interstage                                 | 10K-12K CT      | 2K-2.4K split     | 7.64     |
| 63 G 294  | DO-T39     | Interstage                                 | 20K-30K CT      | 1K-1.5K split     | 7.64     |
| 63 G 294  | DO-T40     | Interstage                                 | 40K-50K CT      | 400-500 split     | 7.35     |
| 63 G 296  | DO-T41     | Interstage                                 | 400-500 CT      | 400-500 split     | 7.35     |
| 63 G 298  | DO-T43     | Interstage                                 | 400-500 CT      | 40-50 split       | 7.35     |

## DI-T TRANSFORMERS

Weigh 0.05 oz. or 1/4" dia. by 1/4" long. Hermetically sealed, meet MIL-27A. For printed circuits. Leads withstand 10 lb. pull, 1 oz. ing. no plastic covering on leads.

| Stock No. | Mfr's Type | Application                                    | Pri. Imp., Ohms | Sec. Imp., Ohms | NET EACH |
|-----------|------------|------------------------------------------------|-----------------|-----------------|----------|
| 61 G 743  | DI-T1      | Interstage                                     | 20K-30K         | 800-1.2K        | 5.88     |
| 63 G 107  | DI-T3      | Output                                         | 1K-1.2K         | 50-60           | 5.29     |
| 63 G 108  | DI-T8      | Reactor 2.5 hys @ 1 ma DC, 3 hys @ 4 ma DC     |                 |                 | 4.70     |
| 63 G 110  | DI-T10     | Driver                                         | 10K-12.5K       | 1.2K-1.5K       | 6.47     |
| 63 G 111  | DI-T11     | Driver                                         | 10K-12K         | 2K-2.5K         | 6.47     |
| 63 G 112  | DI-T13     | Output                                         | 300             | 600             | 5.88     |
| 63 G 114  | DI-T22     | Output                                         | 1.5K            | 600             | 5.88     |
| 63 G 137  | DI-T23     | Interstage                                     | 20K-30K         | 800-1.2K        | 6.76     |
| 61 G 746  | DI-T25     | Interstage                                     | 10K-12K CT      | 1.5K-1.8K CT    | 7.06     |
| 61 G 747  | DI-T26     | Reactor 4.5 hys @ 2 ma DC, 1.2 hys @ 4 ma DC   |                 |                 | 5.59     |
| 61 G 748  | DI-T27     | Reactor 3 hys @ 2 ma DC, 3 hys @ 4 ma DC       |                 |                 | 4.70     |
| 61 G 749  | DI-T28     | Reactor 1.25 hys @ 4 ma DC, 0.8 hys @ 10 ma DC |                 |                 | 4.70     |
| 61 G 750  | DI-T36     | Interstage                                     | 10K-12K CT      | 10K-12K CT      | 7.35     |

## SOLA TV VOLTAGE REGULATORS

**Type 72104.** Protects against voltage surges and dips. Supplies correct voltage for best reception. For any TV set with power consumption between 105 and 285 watts. Delivers 3% stabilized voltage. No wiring necessary; turns on and off with set. 8 1/2x4 1/2x7 1/2". For 95-130V., 60 cycle AC. 27 lbs. **37.50**

**62 G 667.** NET **37.50**

**Type 72103.** For 110 to 175-watt sets. Shpg. wt., 20 lbs. **34.50**

**62 G 631.** NET **34.50**



# Potter & Brumfield Relays

## PR HEAVY-DUTY POWER RELAYS



For industrial control applications. Heavy screw terminals. All have 25-amp silver contacts except PR11-A1.5 with 20 amp contacts. \*Auxiliary SPDT 5-amp contacts. Sizes: all are 2 1/2" wide; PR3, PR5, 2 1/2 x 2 1/2"; PR7, 2 1/2 x 2 1/2"; PR11, 2 1/2 x 3 1/2". Av. shpg. wt., 12 oz.

| Stock No. | Type     | Volts  | Action | NET  |
|-----------|----------|--------|--------|------|
| 75 P 846  | PR3AY    | 6 AC   | SPST   | 4.15 |
| 75 P 802  | PR5AY    | 6 AC   | SPST   | 4.35 |
| 75 P 848  | PR7AY    | 6 AC   | DPST   | 4.90 |
| 75 P 849  | PR11AY   | 6 AC   | DPDT   | 6.45 |
| 75 P 750  | PR5D     | 6 DC   | SPDT   | 4.35 |
| 75 P 508  | PR11D    | 6 DC   | DPDT   | 6.45 |
| 75 P 834  | PR3AY    | 12 AC  | SPST   | 4.35 |
| 75 P 878  | PR5AY    | 12 AC  | SPST   | 4.35 |
| 75 P 879  | PR7AY    | 12 AC  | DPST   | 4.90 |
| 75 P 752  | PR11AY   | 12 AC  | DPDT   | 6.45 |
| 75 P 509  | PR3D     | 12 DC  | SPST   | 4.15 |
| 75 P 510  | PR5D     | 12 DC  | SPST   | 4.35 |
| 75 P 511  | PR7D     | 12 DC  | DPST   | 4.90 |
| 75 P 512  | PR11D    | 12 DC  | DPDT   | 6.45 |
| 75 P 961  | PR3AY    | 24 AC  | SPST   | 4.15 |
| 75 P 962  | PR5AY    | 24 AC  | SPST   | 4.35 |
| 75 P 963  | PR7AY    | 24 AC  | DPST   | 4.90 |
| 75 P 964  | PR11AY   | 24 AC  | DPDT   | 6.45 |
| 75 P 753  | PR11A1.5 | 24 AC  | DPDT*  | 4.35 |
| 75 P 754  | PR5D     | 24 DC  | SPDT*  | 4.35 |
| 75 P 513  | PR7D     | 24 DC  | DPST   | 4.90 |
| 75 P 514  | PR11D    | 24 DC  | DPDT   | 6.45 |
| 75 P 600  | PR3AY    | 115 AC | SPST   | 4.15 |
| 75 P 601  | PR5AY    | 115 AC | SPST   | 4.35 |
| 75 P 603  | PR7AY    | 115 AC | DPST   | 4.90 |
| 75 P 663  | PR11AY   | 115 AC | DPDT   | 6.45 |
| 75 P 755  | PR11A1.5 | 115 AC | DPDT*  | 8.15 |
| 75 P 966  | PR3D     | 110 DC | SPST   | 4.75 |
| 75 P 967  | PR5D     | 110 DC | SPST   | 4.75 |
| 75 P 970  | PR7D     | 110 DC | DPST   | 5.20 |
| 75 P 971  | PR11D    | 110 DC | DPDT   | 7.05 |
| 75 P 652  | PR3AY    | 230 AC | SPST   | 4.50 |
| 75 P 666  | PR5AY    | 230 AC | SPST   | 4.75 |
| 75 P 654  | PR7AY    | 230 AC | DPST   | 5.35 |
| 75 P 655  | PR11AY   | 230 AC | DPDT   | 8.55 |
| 75 P 756  | PR11A1.5 | 230 AC | DPDT*  | 8.55 |

## MR MEDIUM-DUTY POWER RELAYS



For general applications. Silver contacts rated 8 amps except MR3 types rated 10 amps. All have 20-60 cycles, ST actions normally open. Size: MR3 and MR5, 1 1/2 x 1 1/2 x 2 1/2"; MR11, 2 x 2 1/2 x 2 1/2"; MR14, 2 x 2 1/2 x 2 1/2". Av. wt., 2 1/2 oz.

|          |       |        |      |      |
|----------|-------|--------|------|------|
| 75 P 970 | MR3A  | 6 AC   | SPST | 3.85 |
| 75 P 971 | MR5A  | 6 AC   | SPST | 4.15 |
| 75 P 912 | MR11A | 6 AC   | DPDT | 4.85 |
| 75 P 916 | MR14A | 6 AC   | 3PDT | 5.80 |
| 75 P 983 | MR3D  | 6 DC   | SPST | 3.50 |
| 75 P 618 | MR5D  | 6 DC   | SPDT | 3.20 |
| 75 P 984 | MR11D | 6 DC   | DPDT | 4.60 |
| 75 P 986 | MR14D | 6 DC   | 3PDT | 5.45 |
| 75 P 757 | MR5A  | 12 AC  | SPDT | 3.45 |
| 75 P 758 | MR11A | 12 AC  | DPDT | 4.85 |
| 75 P 759 | MR14A | 12 AC  | 3PDT | 5.80 |
| 75 P 187 | MR3D  | 12 DC  | SPST | 3.50 |
| 75 P 188 | MR5D  | 12 DC  | SPDT | 3.20 |
| 75 P 190 | MR11D | 12 DC  | DPDT | 4.60 |
| 75 P 191 | MR14D | 12 DC  | 3PDT | 5.45 |
| 75 P 978 | MR3A  | 24 AC  | SPST | 3.85 |
| 75 P 979 | MR5A  | 24 AC  | SPST | 3.45 |
| 75 P 980 | MR11A | 24 AC  | DPDT | 4.85 |
| 75 P 982 | MR14A | 24 AC  | 3PDT | 5.80 |
| 75 P 988 | MR3D  | 24 DC  | SPST | 3.50 |
| 75 P 989 | MR5D  | 24 DC  | SPDT | 3.20 |
| 75 P 991 | MR11D | 24 DC  | DPDT | 4.60 |
| 75 P 992 | MR14D | 24 DC  | 3PDT | 5.45 |
| 75 P 665 | MR3A  | 115 AC | SPST | 3.45 |
| 75 P 614 | MR5A  | 115 AC | SPDT | 3.45 |
| 75 P 616 | MR11A | 115 AC | DPDT | 4.85 |
| 75 P 972 | MR14A | 115 AC | 3PDT | 5.80 |
| 75 P 760 | MR5D  | 110 DC | SPDT | 3.70 |
| 75 P 761 | MR11D | 110 DC | DPDT | 5.95 |
| 75 P 762 | MR14D | 110 DC | 3PDT | 5.95 |
| 75 P 657 | MR5A  | 230 AC | SPDT | 3.85 |
| 75 P 658 | MR11A | 230 AC | DPDT | 5.25 |
| 75 P 659 | MR14A | 230 AC | 3PDT | 6.20 |

## MS MOTOR-STARTING RELAYS



For capacitor-start, induction-run motors. Adjustable pull-in. All types normally closed. MS2 type rated at 1/4 HP. MS4 at 3/4 HP. \*Have double-break contacts. Meet U.L. requirements. 2 1/2 x 2 1/2 x 2 1/2". Av. shpg. wt., 5 oz.

|          |       |        |       |      |
|----------|-------|--------|-------|------|
| 76 P 763 | MS2AY | 115 AC | SPST  | 3.55 |
| 76 P 764 | MS4AY | 115 AC | SPST* | 4.15 |
| 76 P 765 | MS2AY | 230 AC | SPST  | 3.95 |
| 76 P 766 | MS4AY | 230 AC | SPST* | 4.55 |

## AB APPLIANCE RELAYS



Ideal for appliance applications requiring long-life and quiet operation. DPDT silver contacts rated at 10 amps. Size: 1 1/2 x 3 1/2". Have 2—No. 8-32 tapped mounting holes on 1 1/4" centers. \*U.L. listed. Av. wt., 5 oz.

| Stock No. | Type    | Volts  | NET  |
|-----------|---------|--------|------|
| 75 P 399  | AB11AY* | 6 AC   | 5.30 |
| 76 P 767  | AB11D   | 6 DC   | 5.20 |
| 76 P 768  | AB11D   | 12 DC  | 5.20 |
| 76 P 418  | AB11AY* | 24 AC  | 5.30 |
| 76 P 769  | AB11D   | 24 DC  | 5.20 |
| 75 P 419  | AB11AY* | 115 AC | 5.30 |
| 75 P 448  | AB11D   | 110 DC | 5.70 |
| 75 P 449  | AB11AY* | 230 AC | 5.70 |

## ABC MEDIUM-POWER RELAYS



For small motors, industrial controls, etc. Have DPDT silver contacts rated at 10 amps. Snap-on and screw terminal connections. Have dust covers. Size above chassis: 1 3/4 x 2 1/2 x 2 1/2". Single No. 8-32 mounting stud 3/8" long and locating tab. \*U.L. listed. Av. shpg. wt., 7 oz.

|          |          |        |      |
|----------|----------|--------|------|
| 75 P 431 | ABC11AY* | 6 AC   | 6.40 |
| 76 P 770 | ABC11D   | 6 DC   | 6.30 |
| 76 P 771 | ABC11D   | 12 DC  | 6.30 |
| 75 P 432 | ABC11AY* | 24 AC  | 6.40 |
| 76 P 772 | ABC11D   | 24 DC  | 6.30 |
| 75 P 433 | ABC11AY* | 115 AC | 6.40 |
| 75 P 465 | ABC11D   | 110 DC | 6.80 |
| 75 P 464 | ABC11AY* | 230 AC | 6.80 |

## MB MINIATURE DC POWER RELAYS



Rugged telephone type relays. Designed for very high current applications. Contact arms are heavy brass with large silver contacts; solder terminals. Rated 60 amps, SPST, double break, normally open. Size: 1 1/2 x 1 1/2 x 1 1/2". Mounting Post No. 3-48 tapped holes on 3/4 x 3/8" centers. Av. shpg. wt., 5 oz.

|          |      |        |      |
|----------|------|--------|------|
| 75 P 059 | MB3D | 6 DC   | 5.40 |
| 75 P 065 | MB3D | 12 DC  | 5.50 |
| 75 P 066 | MB3D | 24 DC  | 5.50 |
| 75 P 067 | MB3D | 110 DC | 5.90 |

## MC SERIES RELAYS



Ideal for RF switching applications—have only 1.5 mm! maximum capacitance between SPDT palladium contacts. Long-lasting contacts rated 1 ampere. Size: 1 1/2 x 1 1/2 x 3/4". Av. wt., 2 oz.

|          |      |        |      |
|----------|------|--------|------|
| 76 P 741 | MC5A | 6 AC   | 5.00 |
| 76 P 742 | MC5D | 6 DC   | 4.40 |
| 76 P 743 | MC5D | 12 DC  | 4.40 |
| 76 P 744 | MC5D | 24 DC  | 4.40 |
| 76 P 745 | MC5A | 115 AC | 5.00 |

## LM PLATE-CIRCUIT RELAYS



For photoelectric and similar circuits. Adjustable for voltages or current. Silver contacts rated 5 amps, 15 V., 60 cycles, non-inductive load. Have 100 milliwatt sensitivity for single-pole, 200 mw for double-pole. \*SPDT, 1PDT. Sizes are: LM5, 2 1/2 x 1 x 1/2"; LM11, 2 1/2 x 2 1/2 x 1 1/2". Av. shpg. wt., 9 oz.

| Stock No. | Type  | Ohms   | Ma  | NET  |
|-----------|-------|--------|-----|------|
| 75 P 673  | LM5*  | 2500   | 6.3 | 3.90 |
| 75 P 674  | LM5*  | 5000   | 4.5 | 4.10 |
| 75 P 675  | LM5*  | 10,000 | 3.2 | 4.40 |
| 75 P 682  | LM11† | 2500   | 9.0 | 5.55 |
| 75 P 683  | LM11† | 5000   | 6.3 | 5.75 |
| 75 P 684  | LM11† | 10,000 | 4.5 | 6.30 |

## RELAY CASES



For PR Relays. Steel base with aluminum cover. 2—knockouts for 3/4" conduit. Mtg.: 3—No. 10 holes on 1 1/4 x 1 1/2" centers. Size: 3 1/2 x 5 1/2 x 3 1/2". Shpg. wt., 1 lb.

76 P 777. NET. 3.00

For MR and MS Relays. Steel base with aluminum cover. 2—knockouts for 3/4" conduit. Mounts on pre-drilled holes. Wt., 1/2 lb.

76 P 778. NET. 1.90

## AG SHOCKPROOF RELAYS



Shockproof relays in dust-proof covers. Screw terminals, phenolic bases. Silver DPDT contacts rated 5 amps. Size: 2 1/2 x 3 1/2 x 1 1/2". 2—3/8" mounting holes on 2 1/4 x 3/4" diagonal centers. Shpg. wt., 10 oz.

| Stock No. | Type   | Volts  | NET  |
|-----------|--------|--------|------|
| 76 P 773  | AG11D  | 24 DC  | 9.10 |
| 76 P 774  | AG11AY | 115 AC | 9.20 |

## KA GENERAL-PURPOSE RELAYS



Compact, general purpose relays for transmitters, power supply control, etc. Moisture resistant. Heavy-duty contacts rated at 5 amps. AC coils for 60 cycles. All types U.L. listed. 2 1/2 x 3 1/2" mounting stud, 1 1/2 x 1 1/2" shpg. wt., 6 oz.

| Stock No. | Type   | Volts  | Action | NET  |
|-----------|--------|--------|--------|------|
| 75 P 158  | KA5AY  | 6 AC   | SPDT   | 3.20 |
| 75 P 159  | KA11AY | 6 AC   | DPDT   | 3.20 |
| 75 P 160  | KA14AY | 6 AC   | 3PDT   | 4.85 |
| 75 P 167  | KA5D   | 6 DC   | SPDT   | 3.20 |
| 75 P 168  | KA11D  | 6 DC   | DPDT   | 4.40 |
| 75 P 169  | KA14D  | 6 DC   | 3PDT   | 3.80 |
| 76 P 780  | KA5AY  | 12 AC  | SPDT   | 3.20 |
| 76 P 781  | KA11AY | 12 AC  | DPDT   | 3.80 |
| 76 P 779  | KA14AY | 12 AC  | 3PDT   | 4.25 |
| 75 P 170  | KA5D   | 12 DC  | SPDT   | 3.20 |
| 75 P 171  | KA11D  | 12 DC  | DPDT   | 4.40 |
| 75 P 172  | KA14D  | 12 DC  | 3PDT   | 3.80 |
| 75 P 161  | KA5AY  | 24 AC  | SPDT   | 3.20 |
| 75 P 162  | KA11AY | 24 AC  | DPDT   | 3.85 |
| 75 P 163  | KA14AY | 24 AC  | 3PDT   | 4.25 |
| 75 P 173  | KA5D   | 24 DC  | SPDT   | 3.05 |
| 75 P 174  | KA11D  | 24 DC  | DPDT   | 4.25 |
| 75 P 185  | KA14D  | 24 DC  | 3PDT   | 3.85 |
| 75 P 164  | KA5AY  | 115 AC | SPDT   | 3.20 |
| 75 P 165  | KA11AY | 115 AC | DPDT   | 3.85 |
| 75 P 166  | KA14AY | 115 AC | 3PDT   | 4.25 |
| 76 P 786  | KA5D   | 110 DC | SPDT   | 3.65 |
| 76 P 787  | KA11D  | 110 DC | DPDT   | 4.65 |
| 76 P 523  | KA14D  | 110 DC | 3PDT   | 4.45 |
| 76 P 783  | KA11AY | 230 AC | DPDT   | 4.25 |

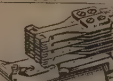
## KRP ENCLOSED TYPE RELAYS



Completely enclosed compact relays in hi-impact, transparent, plastic cases. Full environmental protection, weather-proof for long, trouble-free operation.

Types KRP5 and KRP11 plug into standard octal sockets. Type KRP5 relays plug into 11-pin socket. Heavy silver contacts rated 5 amps non-inductive load. Size: 1 1/2 x 1 1/2 x 2". Av. shpg. wt., 5 oz.

|          |        |        |      |      |
|----------|--------|--------|------|------|
| 75 P 214 | KRP5A  | 6 AC   | SPDT | 5.45 |
| 75 P 920 | KRP11A | 6 AC   | DPDT | 6.05 |
| 75 P 921 | KRP14A | 6 AC   | 3PDT | 6.50 |
| 75 P 217 | KRP5D  | 6 DC   | SPDT | 5.45 |
| 75 P 922 | KRP11D | 6 DC   | DPDT | 6.00 |
| 75 P 094 | KRP14D | 6 DC   | 3PDT | 7.45 |
| 76 P 524 | KRP11A | 12 AC  | DPDT | 6.05 |
| 76 P 525 | KRP14A | 12 AC  | 3PDT | 7.50 |
| 76 P 244 | KRP5D  | 12 DC  | SPDT | 5.45 |
| 75 P 246 | KRP11D | 12 DC  | DPDT | 6.00 |
| 75 P 095 | KRP14D | 12 DC  | 3PDT | 7.45 |
| 75 P 215 | KRP5A  | 24 AC  | SPDT | 5.45 |
| 75 P 216 | KRP11A | 24 AC  | DPDT | 6.05 |
| 75 P 245 | KRP14A | 24 AC  | 3PDT | 7.50 |
| 75 P 247 | KRP11D | 24 DC  | DPDT | 6.00 |
| 75 P 096 | KRP14D | 24 DC  | 3PDT | 7.45 |
| 75 P 213 | KRP5A  | 115 AC | SPDT | 5.45 |
| 75 P 922 | KRP11A | 115 AC | DPDT | 6.05 |
| 75 P 923 | KRP14A | 115 AC | 3PDT | 7.50 |
| 75 P 925 | KRP11D | 110 DC | DPDT | 6.05 |
| 76 P 998 | KRP14D | 110 DC | 3PDT | 8.05 |
| 76 P 997 | KRP11A | 230 AC | DPDT | 6.45 |
| 75 P 557 | KRP14A | 230 AC | 3PDT | 7.90 |



## BS SERIES

Long-life telephone type relays. Ideal for computer and automatic test equipment. Tinned solder terminals for rear panel mounting. Have 4-amp, 6PDT twin palladium contacts except \*4PDT. BS17L and BS23L are plate circuit relays; 45.5 ma. 47.6 ma operating current. Two No. 8-32 mounting holes on 3/4" mtg. centers. Shpg. wt., 11 oz.

| Stock No. | Type  | Volts  | Ohms   | EACH |
|-----------|-------|--------|--------|------|
| 76 P 646  | BS17D | 24 DC* | 1000   | 7.40 |
| 76 P 647  | BS23D | 24 DC  | 1000   | 8.95 |
| 76 P 312  | BS23D | 48 DC  | 1000   | 9.30 |
| 76 P 313  | BS23D | 110 DC | 650    | 9.50 |
| 76 P 648  | BS23A | 115 AC | †      | 71   |
| 76 P 649  | BS17L | †      | 10,000 | 8.00 |
| 76 P 499  | BS23L | †      | 10,000 | 9.50 |



# Potter and Brumfield, Advance, B-T Relays

## POTTER AND BRUMFIELD RELAYS

WE CAN SUPPLY THE COMPLETE POTTER AND BRUMFIELD LINE. Only the most widely used Potter and Brumfield relays are shown on these pages. Contact us for prices or other information on any types not listed—you will receive a prompt reply.

### TYPE PC IMPULSE RELAYS

act, pulse-operated for on-off or reversing applications. Pulses may be short as 60 milliseconds. Gold-plated contacts, rated 7.5 at 115 volts AC, 20% overload. Size: 2 1/2x2 1/2x2 1/2 AC types for 250 ohm Shpg. wt., 5 oz.

| No. | Type  | Action | Volts  | NET  |
|-----|-------|--------|--------|------|
| 504 | PC11A | DPDT   | 6 AC   | 5.50 |
| 505 | PC17A | 4PDT   | 6 AC   | 7.60 |
| 506 | PC11D | DPDT   | 6 DC   | 5.50 |
| 507 | PC17D | 4PDT   | 6 DC   | 7.45 |
| 508 | PC11A | DPDT   | 12 AC  | 5.50 |
| 509 | PC11A | DPDT   | 24 AC  | 5.50 |
| 510 | PC17A | 4PDT   | 24 AC  | 7.60 |
| 511 | PC11D | DPDT   | 24 AC  | 5.50 |
| 512 | PC17D | 4PDT   | 24 DC  | 7.45 |
| 513 | PC11A | DPDT   | 115 AC | 5.50 |
| 514 | PC17A | 4PDT   | 115 AC | 7.60 |
| 515 | PC11D | DPDT   | 110 DC | 5.50 |
| 516 | PC17D | 4PDT   | 110 DC | 7.95 |

### PC RATCHET IMPULSE RELAYS

Extremely fast acting for applications requiring on-off or reversing. Operates on impulse alternate current. Operates on impulse as short as 60 ms. Contact duty: 100% at 115 volts AC, 5 amps. Coils are wound on molded bobbins. Phenolic cans, steel pawls and ratchet with pin armature. Tinned solder terminals. Mounting: Three 3/8" diameter holes on 3/4x7/8" plate. Size: 2 1/2x2 1/2x3 1/2. AC for 50-60 cycle. Shpg. wt., 12 oz.

| No. | Type  | Volts  | Action | NET   |
|-----|-------|--------|--------|-------|
| 517 | AP11A | 6 AC   | DPDT   | 8.70  |
| 518 | AP17A | 6 AC   | 4PDT   | 10.50 |
| 519 | AP11D | 6 DC   | DPDT   | 8.70  |
| 520 | AP17D | 6 DC   | 4PDT   | 10.50 |
| 521 | AP11A | 12 AC  | DPDT   | 8.70  |
| 522 | AP17A | 12 AC  | 4PDT   | 10.50 |
| 523 | AP11D | 12 DC  | DPDT   | 8.70  |
| 524 | AP17D | 12 DC  | 4PDT   | 10.50 |
| 525 | AP11A | 24 AC  | DPDT   | 8.70  |
| 526 | AP17A | 24 AC  | 4PDT   | 10.50 |
| 527 | AP11D | 24 DC  | DPDT   | 8.70  |
| 528 | AP17D | 24 DC  | 4PDT   | 10.50 |
| 529 | AP11A | 115 AC | DPDT   | 8.70  |
| 530 | AP17A | 115 AC | 4PDT   | 10.50 |
| 531 | AP11D | 110 DC | DPDT   | 8.70  |
| 532 | AP17D | 110 DC | 4PDT   | 10.50 |
| 533 | AP11A | 230 AC | DPDT   | 9.15  |
| 534 | AP17A | 230 AC | 4PDT   | 10.95 |

### ANTENNA-SWITCHING RELAYS

For use with receivers and transmitters. Designed for RF applications. Will handle 100 ohm line. All are DPDT. 6-32 stud. Fine silver, 5 amp. Size, 1 1/2x1 1/2x1 1/2. Shpg. wt., 2 oz.

| k.  | Type  | Volts  | NET EACH |
|-----|-------|--------|----------|
| 373 | KT11A | 6 AC   |          |
| 374 | KT17A | 115 AC | 3.70     |
| 375 | KT11D | 6 DC   |          |
| 376 | KT17D | 12 DC  |          |

### NEW TYPE "P" RELAY CASES

Model 35D070. Clear, cellulose acetate case for mounting capacitors, resistors or a combination of components. Equipped with 8-pin octal-type plug-in terminals with four screws. Securely fastening case to use with 9-KR-15 hold-down spring (below) for applications. 1 1/2x2 1/2. Shpg. wt., 2 oz. \$58. NET.....55c

559. Type 35D072. As above, with 11-pin plug. NET.....70c

554. Type 9-KR-15 Hold-Down Spring. Fits all KCP or KRP plug-in relays. Fits two 3/8" dia. holes on 1 1/2x2 1/2. Takes machine screws or rivets. 60 per box. Shpg. wt., 2 oz. \$5.00

### GP "PIC & BUILD" SERIES

Units available can be combined to produce twenty different relays, each easily converted to an alternative sensitivity or switching arrangement in minutes. The 110 v. DC coil is approximately 6000 ohms. The 2500, 6000 and 10,000 ohm coils may be used in plate circuit applications and can be adjusted to operate on 13, 8, and 6.5 ma respectively. 1/2" diameter switch contacts are present at 5 amp. Has tapped core to permit mounting with single 8-32 screw. Size, 1x1 1/2x1 1/2. Av. wt., 4 oz.

| Stock No. | Mfr's Type | Item            | NET  |
|-----------|------------|-----------------|------|
| 76 P 333  | GPA        | 6 v. AC Coil    | 1.65 |
| 76 P 337  | GPD        | 6 v. DC Coil    | 2.10 |
| 76 P 539  | GPA        | 12 v. AC Coil   | 1.65 |
| 76 P 338  | GPD        | 12 v. DC Coil   | 2.10 |
| 76 P 334  | GPA        | 24 v. AC Coil   | 1.65 |
| 76 P 339  | GPD        | 24 v. DC Coil   | 2.10 |
| 76 P 115  | GPA        | 115 v. AC Coil  | 1.65 |
| 76 P 340  | GPD        | 110 v. DC Coil  | 3.15 |
| 76 P 336  | GPA        | 230 v. AC Coil  | 2.10 |
| 76 P 341  | GPD        | 2500-ohm Coil   | 1.50 |
| 76 P 342  | GPD        | 10,000-ohm Coil | 2.10 |
| 76 P 343  | GPD        | 6000-ohm Coil   | 1.70 |
| 76 P 344  | GP17       | 4PDT Switch     | 2.95 |

### KCP ENCLOSED RELAYS

Plate circuit relays. In high-impact, weatherproof plastic cases. Fit standard octal or 11-pin socket (below). 2 amp resistive, silver contacts. 1 1/2x2 sq. by 2 1/2. 5 oz.

| Stock No. | Type  | Action | Ohms   | Ma   | NET  |
|-----------|-------|--------|--------|------|------|
| 75 P 287  | KCP5  | SPDT   | 2500   | 7.2  | 5.90 |
| 75 P 288  | KCP5  | SPDT   | 5000   | 5.0  | 6.00 |
| 75 P 289  | KCP5  | SPDT   | 10,000 | 3.6  | 6.40 |
| 75 P 290  | KCP11 | DPDT   | 2500   | 10.0 | 6.40 |
| 75 P 291  | KCP11 | DPDT   | 5000   | 7.2  | 6.40 |
| 75 P 292  | KCP11 | DPDT   | 10,000 | 5.0  | 6.80 |
| 75 P 097  | KCP14 | 3PDT   | 2500   | 12.3 | 7.75 |
| 75 P 098  | KCP14 | 3PDT   | 5000   | 8.7  | 7.85 |
| 75 P 099  | KCP14 | 3PDT   | 10,000 | 6.1  | 8.25 |

Amphenol 77M18P Socket. For KRP and KCP relays. For all relay except KRP14 and KCP14 types. Molded bakelite. Mounts in 1/2x2 1/2 hole. 1 1/2x2 1/2 hole. Mfg. centers, 1 1/2". Wt., 5 oz.

Amphenol 77M1P1 Socket. For KRP14 and KCP14 types. Molded bakelite. Mounts in 1 1/2x2 1/2 hole. 1 1/2x2 1/2 hole. Mfg. centers, 1 1/2". Wt., 5 oz.

### LB-5 PLATE CIRCUIT RELAYS

Small, fast-acting circuit relays. For any circuit supplying only a few milliwatts of DC. Breakdown: 500 volts rms minimum. Silver contacts are rated 5 amps resistive load with non-inductive load. All units have SPDT action. Adjusted by bending tail-spring hook. Size, 2 1/2x2 1/2x1 1/2. For DC operation only. Shpg. wt., 5 oz.

| Stock No. | Ohms   | Ma  | NET EACH |
|-----------|--------|-----|----------|
| 75 P 625  | 2500   | 9   | 2.45     |
| 75 P 626  | 5000   | 6.3 | 2.65     |
| 75 P 774  | 10,000 | 4.5 | 2.85     |

### DIACROM RELAY CLEANING SPATULA

- Uses Abrasive of Diamond Particles
- Leaves Clean, Perfectly Polished Surface
- Wear-Resistant Design—Lasts A Lifetime

Makes cleaning of relay contacts a quick and easy operation. Utilizes the superior abrasive action of diamond particles to do a thorough and efficient job. Requires much less pressure than ordinary cleaning methods—leaves the contact gap unchanged and removes very little of the contact material. Exclusive particle bonding method prevents clogging, gives spatula clean and effective. 6" long. Wt., 2 oz.

| Stock No. | Grain Size | To Clean:           | NET EACH |
|-----------|------------|---------------------|----------|
| 77 P 328  | 200        | Industrial Relays   | 4.95     |
| 77 P 329  | 300        | Intermediate Relays |          |
| 77 P 330  | 400        | Sensitive Relays    |          |

## ADVANCE RELAYS

Is the Advance Relay You Require listed on This Page? If not, remember that Allied stocks many other types of Advance relays not shown here—write, wire or phone us for product information and prices.

### TYPE CE COAXIAL RELAYS

Small, compact relays for coaxial line switching where space is limited. Designed especially for use with 52-ohm coaxial lines but may be used on coaxial lines with other impedances. Excellent for use with mobile, aircraft, marine, experimental and fixed-station communications equipment. Features extremely low standing wave ratio for minimum transfer of RF energy. Offer dependable continuous duty operation in any position. All have internal SPDT contacts rated at 2 amps. In addition, CE1/AC2/115VA, CE1/AC2/6VD, and CE1/AC2/12VD also have external DPDT contacts, rated at 2 amps, for auxiliary circuits. Have 2 tapped mounting holes, 6-32 NC-2; .750" centers. Overall size, 1 1/2x2 1/2x2 1/2. Shpg. wt., 6 oz.

| Stock No. | Mfr's Type  | Ohms | Volts     | NET   |
|-----------|-------------|------|-----------|-------|
| 88 P1314  | CE1C/115VA  | 750  | 115 v. AC | 13.20 |
| 88 P1315  | CE1C2/115VA | 750  | 115 v. AC | 14.35 |
| 88 P1316  | CE1C/6VD    | 20   | 6 v. DC   | 12.90 |
| 88 P1317  | CE1C2/6VD   | 20   | 6 v. DC   | 13.7  |
| 88 P1318  | CE1C/12VD   | 80   | 12 v. DC  | 12.50 |
| 88 P1319  | CE1C2/12VD  | 80   | 12 v. DC  | 13.75 |

### TYPE CB COAXIAL RELAYS

Designed to meet the problems of coaxial line switching. Offer use with 52-ohm RG coaxial cables at RF outputs of up to 800 watts on lines with low SWR. For use in mobile, aircraft, and fixed-station installations. SWR is extremely low—less than 1.08:1.00 at 150 mc. Extremely low-loss at very high frequencies. Operates on frequencies up to 300 mcgacycles. Internal contacts are made of heavy quarter-inch fine silver. All have SPDT internal contacts directly connected to Amphenol 85-1R connector. In addition, Type CB1/AC2/115VA, CB1/AC2/6VD, CB1/AC2/12VD, and CB1/AC2/24VD have external DPDT contacts for use with auxiliary circuitry. All contacts rated at 5 amps. Two tapped mounting holes, 6-32 NC-2; .750" centers. 3 1/2x2 1/2x3 1/2. Shpg. wt., 11 oz.

| Stock No. | Mfr's Type | Ohms | Volts     | NET   |
|-----------|------------|------|-----------|-------|
| 87 P 908  | CB1C/115A  | 280  | 115 v. AC | 12.15 |
| 87 P 909  | CB1C2/115A | 280  | 115 v. AC | 13.25 |
| 87 P 902  | CB1C/6VD   | 18   | 6 v. DC   | 10.00 |
| 87 P 903  | CB1C2/6VD  | 18   | 6 v. DC   | 13.00 |
| 88 P 305  | CB1C/12VD  | 70   | 12 v. DC  | 12.00 |
| 88 P 306  | CB1C2/12VD | 70   | 12 v. DC  | 13.00 |
| 88 P 307  | CB1C/24VD  | 280  | 24 v. DC  | 12.00 |
| 88 P 309  | CB1C2/24VD | 280  | 24 v. DC  | 13.00 |

### TYPE AM ANTENNA RELAYS

Compact "transmit-receive" antenna relays. For low-power RF use. DPDT silver contacts rated at 2 amps at 115 v. AC, 6.5 VDC resistive. Mounting stud. Size, 1 1/2x1 1/2x1 1/2. Shpg. wt., 6 oz.

| Stock No. | Mfr's Type  | Volts     | NET  |
|-----------|-------------|-----------|------|
| 87 P 994  | AM/2C/6VA   | 6 v. AC   | 4.70 |
| 87 P 995  | AM/2C/6VD   | 6 v. DC   | 4.20 |
| 87 P 996  | AM/2C/12VD  | 12 v. DC  | 4.20 |
| 87 P 901  | AM/2C/115VA | 115 v. AC | 5.05 |

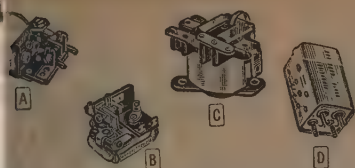
### BLONDER-TONGUE THERMO RELAY

Model TR-3A. Replacement relay used in boosters and converters which automatically turn on and off with the TV set. When TV set is turned on, current drawn by the set flows through thermal unit of the relay, heating it, and causing the relay to close—thus supplying power to the booster or converter unit. When TV set is turned off, current ceases to flow through thermal unit, relay opens, and the booster is turned off. Silver contacts are adjustable for time delays of .1 to 4 seconds. Handle up to .5 amp at 117 volts or 1/4 amp at 200 volts AC. Provide exceptionally uniform operation over current range of 1 to 3 amps. Size, 2 1/2x1 1/2x3/8. Shpg. wt., 2 oz. \$1 21.00. List, \$2.00. NET.....1.27



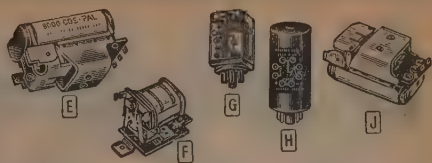


# Relays, Counters and Motors



## SENSITIVE SIGMA RELAYS

Ruggedly Built  
For Long Service



**Type 4F.** A wide selection of plate circuit relays for 20 or 50 mv. sensitivity applications. Unenclosed, with screw mounting, solenoid terminal and coil lead connection. SPDT contacts rated at 2 amps. For smoke detection, alarm relays, etc.  $1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ " 3 oz.

| Stock No. | Mfr's Type     | Ohms  | Ma. | DC   | NET |
|-----------|----------------|-------|-----|------|-----|
| 126       | 4F-200-S/SIL   | 200   | 10  | 6.05 |     |
| 377       | 4F-1000-S/SIL  | 1000  | 4.5 | 6.05 |     |
| 378       | 4F-5000-S/SIL  | 5000  | 2.0 | 6.05 |     |
| 285       | 4F-8000-S/SIL  | 8000  | 1.6 | 6.60 |     |
| 127       | 4F-10000-S/SIL | 10000 | 1.4 | 6.60 |     |

**Type 5F.** General-purpose DC or AC, with balanced armature construction. SPDT contacts rated at 1.5 amps. Withstand shock of 500 G. Units are unenclosed, with screw terminal and solder terminal connection. Size,  $1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ ". Shpg. wt., 5 oz.

| Stock No. | Mfr's Type     | Ohms  | Ma. | DC   | NET |
|-----------|----------------|-------|-----|------|-----|
| 380       | 5F-1000-S/SIL  | 1000  | 2.3 | 8.25 |     |
| 381       | 5F-2500-S/SIL  | 2500  | 1.4 | 8.25 |     |
| 382       | 5F-5000-S/SIL  | 5000  | 1.0 | 8.80 |     |
| 383       | 5F-10000-S/SIL | 10000 | 0.7 | 9.65 |     |

**Type 11F.** Small, low-cost DC relay. 50 and 200 mv. sensitivity; SPDT contacts rated at 1 amp.  $1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ " high. Shpg. wt., 3 oz.

| Stock No. | Mfr's Type     | Ohms | Ma. | DC   | NET |
|-----------|----------------|------|-----|------|-----|
| 068       | 11F-1000-G/SIL | 1000 | 7.0 | 1.75 |     |
| 069       | 11F-2000-G/SIL | 2000 | 4.0 | 1.75 |     |
| 074       | 11F-6000-G/SIL | 6000 | 2.4 | 2.15 |     |
| 075       | 11F-9000-G/SIL | 9000 | 2.4 | 2.15 |     |

**Type 11FZ.** Small, low-cost AC relay for positive on-off operation. SPDT contacts rated at 1 amp at 120 V. AC.  $1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ " 3 oz.

| Stock No. | Mfr's Type        | Ohms | Ma. | DC   | NET |
|-----------|-------------------|------|-----|------|-----|
| 547       | 11FZ-25-ACS/SIL   | 25   | 6   | 2.50 |     |
| 548       | 11FZ-150-ACS/SIL  | 150  | 12  | 2.50 |     |
| 549       | 11FZ-550-ACS/SIL  | 550  | 24  | 2.50 |     |
| 568       | 11FZ-9000-ACS/SIL | 9000 | 120 | 2.95 |     |

**Series 22.** Miniature hermetically-sealed relay. Silver contacts rated 2 amps for 28 V. DC or 120 V. AC resistive load. SPDT action at 12 to 40 mv sensitivity, except \*DPDT at 20 to 80 mv.  $1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ ". Shpg. wt., 6 oz.

| Stock No. | Mfr's Type        | Ohms | Ma. | DC    | NET |
|-----------|-------------------|------|-----|-------|-----|
| 76 P 384  | 22RJC-1000-G/SIL  | 1000 | 4.5 | 13.00 |     |
| 76 P 385  | 22RJC-2500-G/SIL  | 2500 | 2.8 | 13.50 |     |
| 76 P 386  | 22RJC-5000-G/SIL  | 5000 | 2.0 | 14.00 |     |
| 76 P 387  | 22RJC-8000-G/SIL  | 8000 | 1.6 | 14.50 |     |
| 76 P 388  | 22RJC-1000-G/SIL* | 1000 | 6.3 | 14.50 |     |
| 76 P 389  | 22RJC-2500-G/SIL* | 2500 | 4.0 | 15.00 |     |
| 76 P 390  | 22RJC-5000-G/SIL* | 5000 | 2.8 | 15.50 |     |
| 76 P 391  | 22RJC-8000-G/SIL* | 8000 | 2.3 | 16.00 |     |

**Series 26.** SPDT plate circuit relay. Type CDS extremely rugged; S, sensitive; G, stable. 4-20 mv. sensitivity. Contacts rated 0.5-2 amps.  $1 \times 1\frac{1}{2} \times 1\frac{1}{2}$ " high. Wt., 4 oz.

| Stock No. | Mfr's Type      | Ohms   | Ma. | DC    | NET |
|-----------|-----------------|--------|-----|-------|-----|
| 76 P 904  | 26F-1000-DC/SIL | 1000   | 2.3 | 7.90  |     |
| 76 P 905  | 26F-8000-DC/SIL | 8000   | 0.7 | 9.55  |     |
| 76 P 906  | 26F-12000-G/SIL | 12,000 | 0.9 | 10.80 |     |

**Series 41.** SPDT contacts rated: \*2; 15 amps. Sensitivity, 32 to 200 mv. DC; 0.6 to 0.4 V. AC.  $2\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ ".

| Stock No. | Mfr's Type         | Volts (AC) | Ma. | DC   | NET |
|-----------|--------------------|------------|-----|------|-----|
| 76 P 076  | 41FZ-10-ACS/SIL    | 6 v. +     | ... | 3.50 |     |
| 76 P 382  | 41FZ-35-ACS/SIL    | 10 v. +    | ... | 4.00 |     |
| 76 P 077  | 41FZ-200-ACS/SIL   | 24 v. +    | ... | 3.50 |     |
| 76 P 383  | 41FZ-500-ACS/SIL   | 24 v. +    | ... | 4.00 |     |
| 76 P 078  | 41FZ-5000-ACS/SIL  | 115 v. +   | ... | 3.65 |     |
| 76 P 384  | 41FZ-10000-ACS/SIL | 115 v. +   | ... | 4.00 |     |
| 76 P 079  | 41FZ-12000-ACS/SIL | 230 v. +   | ... | 4.15 |     |
| 76 P 395  | 41F-5-S/SIL        | 5 ohms     | 90  | 3.85 |     |
| 76 P 396  | 41F-50-S/SIL       | 50 ohms    | 30  | 3.85 |     |
| 76 P 397  | 41F-200-S/SIL      | 200 ohms   | 15  | 3.85 |     |
| 76 P 398  | 41F-1000-S/SIL     | 1K ohms    | 6.5 | 3.85 |     |
| 76 P 399  | 41F-5000-S/SIL     | 5K ohms    | 3.0 | 4.00 |     |
| 76 P 400  | 41F-10000-S/SIL    | 10K ohms   | 2.0 | 4.25 |     |

**Series 42.** DPDT relay with octal plug-in base and dust cover. Operating power is under 0.25 watt on DC and under 0.5 volt-amp on AC. Silver contacts rated 5 amps at 28 V. DC or 115 V. AC for 100,000 operations. AC units are designed for 60 cycle operation. Z in Type No. indicates for AC. Withstand shock up to 100 G. Pin connections are on cover.  $2\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ ". Shpg. wt., 4 oz.

| Stock No. | Mfr's Type          | V/Ohms   | Ma. | NET  |
|-----------|---------------------|----------|-----|------|
| 76 P 401  | 42R02-8-ACG/SIL     | 6 VAC    | ... | 6.20 |
| 76 P 914  | 42R02-25-ACS/SIL    | 6 VAC    | ... | 7.15 |
| 76 P 403  | 42R02-200-ACG/SIL   | 24 VAC   | ... | 6.20 |
| 76 P 908  | 42R02-340-ACS/SIL   | 24 VAC   | ... | 7.15 |
| 76 P 404  | 42R02-4000-ACG/SIL  | 120 VAC  | ... | 6.20 |
| 76 P 907  | 42R02-7000-ACS/SIL  | 90 VAC   | ... | 7.35 |
| 76 P 128  | 42R02-12000-ACG/SIL | 150 VAC  | ... | 6.80 |
| 76 P 405  | 42R02-50-G/SIL      | 5 ohms   | 200 | 6.20 |
| 76 P 407  | 42R02-50-G/SIL      | 50 ohms  | 65  | 6.20 |
| 76 P 408  | 42R02-200-G/SIL     | 200 ohms | 32  | 6.20 |
| 76 P 409  | 42R02-1000-G/SIL    | 1K ohms  | 14  | 6.20 |
| 76 P 410  | 42R02-5000-G/SIL    | 5K ohms  | 6.5 | 6.40 |
| 76 P 411  | 42R02-10000-G/SIL   | 10K ohms | 4.5 | 6.60 |

**Series 72.** Sensitive, magnetic latching relay for high speed switching, pulse repeating, telegraphy up to 500 pulses per second. SPDT contacts rated 0.6 amp. Require 50 VDC. Have octal plug in base and removable dust cover. Size,  $1\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$ ". Shpg. wt., 5 oz.

| Stock No. | Mfr's Type      | Trip Ma. | NET   |
|-----------|-----------------|----------|-------|
| 76 P 912  | 72A02-160TS/TCP | 1.6      | 33.00 |
| 76 P 913  | 72A02-160TG/TCP | 3.4      | 33.00 |

**26F-8000-CD5/PAL Relay.** General-purpose unit similar to 4F series (above, left) but higher efficiency rating. Has SPDT action. Contacts are rated 0.5 amp at 28 volts DC or 115 volts AC for 100,000 ohm coil. Operating current, 0.7 ma. Shpg. wt., 7 oz.

75 P 284. NET. 9.75

## INTERNATIONAL RECTIFIER CONTACT PROTECTORS

Encased seleniums. Minimize contact wear by suppressing inductive kickback that causes arcing. \*Max. in ma at 40 operations per sec. Shpg. wt., 3 oz.

| Stock No. | Type  | Min. DCV. | Max. DCV. | *Coil Ma | Size                                                  | NET  |
|-----------|-------|-----------|-----------|----------|-------------------------------------------------------|------|
| 171       | S1V1P | 15        | 22        | 250      | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ " | .89  |
| 172       | S2V1P | 23        | 44        | 250      | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ " | .90  |
| 173       | S3V2P | 45        | 67        | 250      | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ " | 1.07 |
| 174       | S4V2P | 67        | 88        | 250      | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ " | 1.08 |
| 175       | SSV2P | 89        | 110       | 250      | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ " | 1.24 |
| 176       | S6V2P | 111       | 132       | 250      | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ " | 1.25 |
| 177       | S7V2P | 133       | 154       | 250      | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ " | 1.26 |
| 178       | S1V1P | 15        | 22        | 600      | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ " | .94  |
| 179       | S2V1P | 23        | 44        | 600      | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ " | 1.14 |
| 180       | S3V2P | 45        | 66        | 600      | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ " | 1.14 |
| 181       | S4V2P | 67        | 88        | 600      | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ " | 1.36 |
| 182       | S5V2P | 89        | 110       | 600      | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ " | 1.37 |
| 183       | S6V2P | 111       | 132       | 600      | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ " | 1.38 |
| 184       | S7V2P | 133       | 154       | 600      | $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ " | 1.39 |

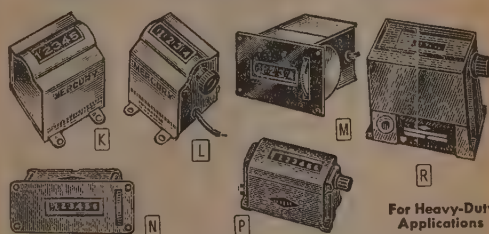
## HURST MOTORS

compact, heavy-duty synchronous motors for continuous timing applications. For use alarm systems, clocks, etc. Excellent shock vibration resistance. Designed for continuous duty without overheating. SM series will not overheat even in a stalled position. 1-inch-ounces of torque at 1 RPM. Clockwise rotation. Start instantly at full torque. SM series is instantly reversible. In inches of torque. Size,  $2\frac{1}{2} \times 1\frac{1}{4}$ ". Shaft,  $\frac{1}{8}$ " by 1" long. Power drain: 7 watts. For 110-5 v. 60 cycle AC. Shpg. wt., 1 lb.



| Stock No. | Mfr's Type | Output Speed | NET EA. | Stock No. | Mfr's Type | Output Speed | NET EA. |
|-----------|------------|--------------|---------|-----------|------------|--------------|---------|
| 571       | SM-1       | 1 RPM        |         | 677       | RSM-1      | 1 RPM        |         |
| 572       | SM-1/2     | 1/2 RPM      |         | 678       | RSM-2      | 2 RPM        |         |
| 573       | SM-2       | 2 RPM        | 8.10    | 679       | RSM-4      | 4 RPM        | 9.60    |
| 574       | SM-3       | 3 RPM        |         | 680       | RSM-6      | 6 RPM        |         |
| 575       | SM-4       | 4 RPM        |         | 681       | RSM-8      | 8 RPM        |         |
| 576       | SM-5       | 5 RPM        |         | 682       | RSM-10     | 10 RPM       |         |
| 577       | SM-6       | 6 RPM        |         | 683       | RSM-12     | 12 RPM       |         |
| 578       | SM-10      | 10 RPM       | 8.10    | 684       | RSM-20     | 20 RPM       | 9.60    |
| 579       | SM-15      | 15 RPM       |         | 685       | RSM-30     | 30 RPM       |         |
| 580       | SM-30      | 30 RPM       |         | 686       | RSM-60     | 60 RPM       |         |
| 581       | SM-60      | 60 RPM       |         |           |            |              |         |

## GENERAL CONTROLS CO. COUNTERS



High-quality electric counters for commercial and industrial applications. For 60-cycle operation.

**Prefix CE-40.** Small counters for coin-operated devices and light to moderate-duty industrial applications. Minimum make time 0.04 sec., break time 0.06 sec. Rated at 600 CPM. Enclosed in tamper-proof case. Reset units count to 4 digits, non-reset to 5. Shpg. wt., 1 lb.

**Prefix CE-600.** Small counters for general industrial purposes. Have minimum make and break time of 0.030 sec. Enclosed in dust-resistant housing. Rated at 1000 CPM, 50-million count life. Have continuous duty coils. 6 digits. Shpg. wt., 1 lb.

**Prefix CE-800.** Heavy-duty counter. For use on drill and punch presses, etc. Min. make and break duration, 0.03 sec. 1000 CPM. Tamper-proof aluminum case. 6 digits. Continuous duty coils. Wt., 5 lbs.

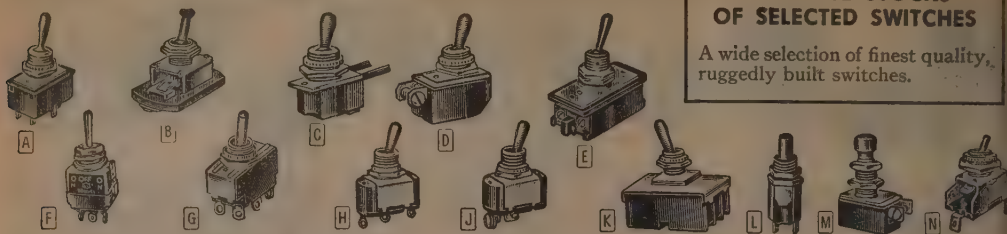
### RESET TYPES

| No.      | Type        | Fig. V. AC | Size                                                         | Mount | Mfg. Ctrs.                                               | NET   |
|----------|-------------|------------|--------------------------------------------------------------|-------|----------------------------------------------------------|-------|
| 77 P 099 | CE-40BS401  | M          | 24 $1\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$ "  | Panel | $1\frac{1}{2} \times 2\frac{1}{2}$ "                     | 15.95 |
| 77 P 049 | CE-40BS402  | M          | 120 $2\frac{1}{2} \times 4\frac{1}{2} \times 2\frac{1}{2}$ " | Panel | $1\frac{1}{2} \times 2\frac{1}{2}$ "                     | 15.95 |
| 77 P 043 | CE-40BS402  | L          | 120 $2\frac{1}{2} \times 4\frac{1}{2} \times 2\frac{1}{2}$ " | Base  | $1\frac{1}{2} \times 1\frac{1}{2}$ "                     | 15.25 |
| 77 P 236 | CE-600AS601 | P          | 24 $2\frac{1}{2} \times 4\frac{1}{2} \times 2\frac{1}{2}$ "  | Base  | $3\frac{1}{2} \times 4\frac{1}{2} \times 2\frac{1}{2}$ " | 21.40 |
| 77 P 237 | CE-600AS602 | P          | 120 $2\frac{1}{2} \times 4\frac{1}{2} \times 2\frac{1}{2}$ " | Base  | $3\frac{1}{2} \times 4\frac{1}{2} \times 2\frac{1}{2}$ " | 21.40 |
| 77 P 238 | CE-600RS601 | N          | 24 $2\frac{1}{2} \times 4\frac{1}{2} \times 2\frac{1}{2}$ "  | Panel | $4\frac{1}{2} \times 4\frac{1}{2} \times 2\frac{1}{2}$ " | 22.90 |
| 77 P 239 | CE-600RS602 | N          | 120 $2\frac{1}{2} \times 4\frac{1}{2} \times 2\frac{1}{2}$ " | Panel | $4\frac{1}{2} \times 4\frac{1}{2} \times 2\frac{1}{2}$ " | 22.90 |
| 77 P 298 | CE-800CS602 | R          | 120 $4\frac{1}{2} \times 6\frac{1}{2} \times 3\frac{1}{2}$ " | Base  | $5\frac{1}{2} \times 2\frac{1}{2}$ "                     | 43.00 |

### NON-RESET TYPES

| No.      | Type       | Fig. V. AC | Size                                                         | Mount | Mfg. Ctrs.                           | NET  |
|----------|------------|------------|--------------------------------------------------------------|-------|--------------------------------------|------|
| 77 P 033 | CE-40AN502 | K          | 120 $2\frac{1}{2} \times 4\frac{1}{2} \times 2\frac{1}{2}$ " | Base  | $1\frac{1}{2} \times 1\frac{1}{2}$ " | 5.15 |

# Cutler-Hammer Switches



## AC-DC TOGGLE SWITCHES

### LIGHT-DUTY TYPE (1-3 AMP)

Light-duty toggle switches featuring exceptionally small size and unusually high ratings. Ideal for small motor loads, radios and many other similar applications. Quick make and break contacts are suitable for AC or DC use. Units are designed for convenient, one hole mounting on panels, housings and other flat surfaces of machines and appliances. Contacts are totally enclosed in an insulating black bakelite case. All have  $\frac{1}{2}$ " diameter threaded stem. \*Indicates 6' wire leads; †screw terminals. 7140-K6 is center-off type; rated 10 amps at 24 volts, DC. All switches shown in table below are U.L. Approved. Av. shpg. wt., 3 oz.

| Stock No. | Mfr's Type | Action | Fig. | Amperes |       | Stem Length     | NET EACH |       |
|-----------|------------|--------|------|---------|-------|-----------------|----------|-------|
|           |            |        |      | 125V    | 250V  |                 | 1-9      | 10-Up |
| 34 B 522  | 7140-K6    | SPDT   | B    | 3       | ..... | $\frac{1}{2}$ " | .45      | .37   |
| 34 B 527  | 8280-K14   | SPST   | A    | .....   | 3     | $\frac{1}{2}$ " | .52      | .43   |
| 34 B 749  | 8380-K15   | SPST   | A    | .....   | 3     | $\frac{1}{2}$ " | .52      | .43   |
| 34 B 800  | 8280-K16   | SPST   | A    | .....   | 3     | $\frac{1}{2}$ " | .52      | .43   |
| 34 B 528  | 8282-K12   | SPDT   | A    | 3       | ..... | $\frac{1}{2}$ " | .66      | .55   |
| 34 B 501  | 8282-K14   | SPDT   | A    | 3       | ..... | $\frac{1}{2}$ " | .66      | .55   |
| 34 B 783  | 8290-K15*  | SPST   | C    | .....   | 3     | $\frac{1}{2}$ " | .64      | .52   |
| 34 B 784  | 8290-K16*  | SPST   | C    | .....   | 3     | $\frac{1}{2}$ " | .64      | .52   |
| 34 B 785  | 8295-K7†   | SPST   | A    | .....   | 3     | $\frac{1}{2}$ " | .64      | .52   |
| 34 B 786  | 8295-K8†   | SPST   | D    | .....   | 3     | $\frac{1}{2}$ " | .64      | .52   |
| 34 B 529  | 8360-K6    | DPST   | A    | .....   | 3     | $\frac{1}{2}$ " | .95      | .79   |
| 34 B 502  | 8360-K7†   | DPST   | A    | .....   | 3     | $\frac{1}{2}$ " | .95      | .79   |
| 34 B 530  | 8363-K6    | DPDT   | A    | .....   | 3     | $\frac{1}{2}$ " | 1.09     | .91   |
| 34 B 503  | 8363-K7†   | DPDT   | A    | .....   | 3     | $\frac{1}{2}$ " | 1.09     | .91   |
| 34 B 408  | 8370-K7    | DPDT   | A    | .....   | 3     | $\frac{1}{2}$ " | 1.02     | .85   |
| 34 B 632  | 8373-K7    | DPDT   | A    | 6       | 3     | $\frac{1}{2}$ " | 1.18     | .97   |
| 34 B 794  | 8373-K8    | DPDT   | A    | 6       | 3     | $\frac{1}{2}$ " | 1.18     | .97   |
| 34 B 795  | 8375-K7†   | DPDT   | A    | 6       | 3     | $\frac{1}{2}$ " | 1.51     | 1.24  |
| 34 B 787  | 8381-K7    | SPST   | A    | 6       | 3     | $\frac{1}{2}$ " | .60      | .50   |
| 34 B 508  | 8381-K8    | SPST   | A    | 6       | 3     | $\frac{1}{2}$ " | .60      | .50   |
| 34 B 788  | 8391-K7*   | SPST   | C    | 6       | 3     | $\frac{1}{2}$ " | 72c      | 59c   |
| 34 B 789  | 8391-K8*   | SPST   | C    | 6       | 3     | $\frac{1}{2}$ " |          |       |
| 34 B 791  | 8396-K8†   | SPST   | D    | 6       | 3     | $\frac{1}{2}$ " |          |       |

### STANDARD AND HEAVY-DUTY TYPES (6-20 AMP)

For control of moderate horsepower motors on many small appliances and other similar applications. Incorporate C-H snuffer-type contact mechanism which is designed to minimize pitting caused by arcing on stalled rotor currents or by heavy overloads. Rugged bakelite base completely encloses the mechanism and terminals are separated by an insulating barrier. Have  $\frac{1}{2}$ " threaded stem. All switches are U.L. Approved, except 8825-K5 (Fig. G) which is JAN S-23, series ST52; also rated 30 amps at 28 V. D.C. Av. shpg. wt., 3 oz.

| Stock No. | Mfr's Type | Action | Fig.             | Amperes |                 | Stem Length     | NET EACH |       |
|-----------|------------|--------|------------------|---------|-----------------|-----------------|----------|-------|
|           |            |        |                  | 125 V   | 250 V           |                 | 1-9      | 10-Up |
| 34 B 545  | 7320-K3    | DPST   | 12               | 6       | $\frac{1}{2}$ " | $\frac{1}{2}$ " | 1.01     | .83   |
| 34 B 546  | 7321-K2    | SPST   | 12               | 6       | $\frac{1}{2}$ " | $\frac{1}{2}$ " | 1.01     | .83   |
| 34 B 520  | 7321-K3    | SPST   | 12               | 6       | $\frac{1}{2}$ " | $\frac{1}{2}$ " | 1.01     | .83   |
| 34 B 718  | 7360-K7    | DPST   | 15               | 10      | $\frac{1}{2}$ " | $\frac{1}{2}$ " | 1.74     | 1.44  |
| 34 B 516  | 7360-K8    | DPST   | 15               | 10      | $\frac{1}{2}$ " | $\frac{1}{2}$ " | 1.74     | 1.44  |
| 34 B 514  | 7361-K5    | SPST   | 15               | 10      | $\frac{1}{2}$ " | $\frac{1}{2}$ " | 1.74     | 1.44  |
| 34 B 717  | 7400-K3    | DPST   | $\frac{1}{2}$ hp | 20      | $\frac{1}{2}$ " | $\frac{1}{2}$ " | 2.47     | 2.04  |
| 34 B 517  | 7402-K4    | DPST   | $\frac{1}{2}$ hp | 20      | $\frac{1}{2}$ " | $\frac{1}{2}$ " | 2.47     | 2.04  |
| 34 B 717  | 8680-K1    | DPST   | 10               | 5       | $\frac{1}{2}$ " | $\frac{1}{2}$ " | 3.17     | 2.18  |
| 34 B 715  | 8690-K2    | DPDT   | 15               | 10      | $\frac{1}{2}$ " | $\frac{1}{2}$ " | 3.86     | 3.18  |
| 34 B 555  | 8825-K5    | DPDT   | 20               | .....   | $\frac{1}{2}$ " | $\frac{1}{2}$ " | 1.27     | 1.05  |

### MINIATURE LIGHT-DUTY TYPE (1-2 AMP)

Miniature, 2 and 3-position, single and double-pole switches for AC or DC use. Designed for aircraft, missile and electronics applications. These precision made switches have gold-plated contacts that open and close with a wiping action for good contact even on low-energy circuits. Contact bounce is extremely low. Sealed lever and panel permit long-life and reliable operation under adverse weather conditions. Exceptionally strong return springs assure positive momentary action. All types are rated 2 amps at 28 volts, D.C.; 1 amp at 50 volts, D.C.; 2 amps at 115 volts, A.C. Feature extremely light weight; \*single-pole types (others are double-pole) weigh only 5 grams; double-pole types weigh 6.5 grams. All have  $\frac{1}{4}$ " diameter threaded stem,  $\frac{1}{8}$ " long. Shpg. wt., 2 oz.

| Stock No. | Mfr's Type | Description     |                 | NET EACH |
|-----------|------------|-----------------|-----------------|----------|
|           |            | Opp. Keyed Side | Ctr. Keyed Side |          |
| 34 B 536  | 8867-K6    | None            | Off             | 6.65     |
| 34 B 528  | 8866-K1*   | On              | Off             | 5.42     |
| 34 B 529  | 8866-K4*   | On              | Off             | 4.56     |
| 34 B 529  | 8866-K4*   | On              | None            | 4.56     |
| 34 B 530  | 8866-K6*   | On              | Off             | 5.46     |
| 34 B 531  | 8866-K6*   | On              | None            | 4.56     |
| 34 B 532  | 8866-K7*   | On              | Off             | 4.56     |
| 34 B 532  | 8866-K7*   | On              | None            | 4.56     |
| 34 B 533  | 8867-K1    | On              | Off             | 4.56     |
| 34 B 534  | 8867-K4    | On              | None            | 5.70     |
| 34 B 535  | 8867-K5    | On              | Off             | 5.70     |
| 34 B 537  | 8867-K7    | On              | None            | 5.70     |

## COMPLETE STOCKS OF SELECTED SWITCHES

A wide selection of finest quality, ruggedly built switches.

## AC TOGGLE SWITCHES

### LIGHT-DUTY TYPE (6A/115V-3A/250V)

Slow make and break AC switches. Simple contact structure designed for long, dependable life. All are rated 6 amperes at 125 volts and 3 amperes at 250 volts. Single-pole switches are illustrated by Fig. H; double-pole are Fig. G. †Indicates center-off positions. All have threaded stem diameter of  $\frac{1}{2}$ "; stem length,  $\frac{1}{2}$ ". All switches are U.L. Approved. Av. shpg. wt., 3 oz.

| Stock No. | Mfr's Type | Action | Term.  | NET EACH |       |
|-----------|------------|--------|--------|----------|-------|
|           |            |        |        | 1-9      | 10-Up |
| 34 B 640  | 7580-K4    | SPST   | Screw  | 52c      | 43c   |
| 34 B 641  | 7580-K4    | SPST   | Solder | 45c      | 38c   |
| 34 B 642  | 7581-K4†   | SPST   | Screw  | 40c      | 50c   |
| 34 B 643  | 7581-K4†   | SPST   | Solder | 49c      | 41c   |
| 34 B 644  | 7582-K4    | SPDT   | Screw  | 60c      | 50c   |
| 34 B 645  | 7582-K4    | SPDT   | Solder | 49c      | 41c   |
| 34 B 646  | 7590-K4    | DPST   | Screw  | 81c      | 67c   |
| 34 B 647  | 7590-K4    | DPST   | Solder | 66c      | 55c   |
| 34 B 648  | 7591-K4†   | DPDT   | Screw  | 93c      | 76c   |
| 34 B 649  | 7591-K4†   | DPDT   | Solder | 79c      | 61c   |
| 34 B 689  | 7592-K4    | DPDT   | Screw  | 96c      | 79c   |
| 34 B 690  | 7592-K4    | DPDT   | Solder | 73c      | 61c   |

### STANDARD-DUTY TYPE (15A/125V-10A/250V)

Small, ruggedly built switches intended primarily for AC use. Provide long, dependable service. Reduction in arcing permits use of the slow make, slow break mechanism. All have  $\frac{1}{2}$ " diameter threaded stem,  $\frac{1}{2}$ " long, except  $\frac{1}{2}$ " long. †Indicates center-off. All have nominal ratings of 10 amperes at 250 volts AC and 15 amperes at 125 volts AC. All are U.L. Approved. Av. shpg. wt., 3 oz.

| Stock No. | Mfr's Type | Action | Term.  | Fig. | NET EACH |       |
|-----------|------------|--------|--------|------|----------|-------|
|           |            |        |        |      | 1-9      | 10-Up |
| 34 B 932  | 7500-K13*  | SPST   | Screw  | J    | .60      | .50   |
| 34 B 931  | 7500-K14   | SPST   | Screw  | J    | .60      | .50   |
| 34 B 933  | 7501-K13   | SPST   | Solder | J    | .52      | .43   |
| 34 B 934  | 7502-K13†  | SPST   | Solder | J    | .52      | .43   |
| 34 B 935  | 7502-K13†  | SPST   | Solder | H    | .60      | .50   |
| 34 B 936  | 7503-K13†  | SPDT   | Solder | H    | .72      | .59   |
| 34 B 937  | 7505-K4    | SPDT   | Solder | H    | .60      | .50   |
| 34 B 938  | 7505-K4    | DPST   | Solder | G    | .96      | .79   |
| 34 B 939  | 7506-K4    | DPST   | Solder | G    | .80      | .67   |
| 34 B 940  | 7507-K4    | DPDT   | Solder | G    | 1.19     | .98   |
| 34 B 941  | 7508-K4    | DPDT   | Solder | G    | .96      | .79   |
| 34 B 942  | 7509-K4    | DPDT   | Solder | K    | 1.66     | 1.29  |
| 34 B 943  | 7601-K2    | 3PST   | Solder | K    | 2.45     | 2.03  |
| 34 B 944  | 7602-K2†   | 3PST   | Solder | K    | 2.04     | 1.69  |
| 34 B 945  | 7603-K2†   | 3PST   | Solder | K    | 2.45     | 2.03  |
| 34 B 946  | 7604-K2    | 3PST   | Solder | K    | 2.04     | 1.69  |

### PUSH-BUTTON AC-DC TYPE

For controlling current by opening or closing of a door; i.e., turn lights on and off in refrigerators, telephone booths, closets, etc. Momentary contact type. Have solder lugs except \*screw type. Normally-open type is "on" with door closed; normally-closed type is "on" with door open. Have  $\frac{1}{2}$ " stem, black button except  $\frac{1}{4}$ " stem, red button;  $\frac{1}{8}$ " stem, push-push type (Fig. M);  $\frac{1}{2}$ "-inch stem length. U.L. Approved. Av. shpg. wt., 3 oz.

| Stock No. | Mfr's Type | Action    | Amperes |       | NET EACH |       |
|-----------|------------|-----------|---------|-------|----------|-------|
|           |            |           | 125 V   | 250 V | 1-9      | 10-Up |
| 34 B 691  | 7196-K1*   | SPST-N.O. | 6       | 3     | 1.07     | .88   |
| 34 B 519  | 7208-K4    | SPST      | 6       | 3     | 1.81     | .68   |
| 34 B 631  | 8411-K4†   | SPST-N.O. | .75     | .25   | .36      | .32   |
| 34 B 632  | 8411-K4†   | SPST-N.O. | .75     | .25   | .36      | .32   |
| 34 B 547  | 8411-K8    | SPST-N.C. | .75     | .25   | .36      | .32   |
| 34 B 549  | 8440-K2    | SPST-N.C. | .75     | .25   | .36      | .32   |

### SPST MIDGET TYPE

Type 8098-K3, Midget switch, 3 amps at 125 volts AC, 0.75 amps at 250 volts DC, and 6 amps at 24 volts, DC. Screw terminals. Threaded stem diameter,  $\frac{1}{8}$ "; stem length,  $\frac{1}{4}$ ". Has bat-handle; handle  $\frac{1}{4}$ " from end of threaded stem. Shpg. wt., 2 oz.

34 B 510, 1-9, EACH..... 41c

10-Up, EACH..... 35c

### ON-OFF PLATE

Type 827-228F3, Switch plate for "On-Off" indication of toggle switches. Designed to fit slot in threaded stem. Secured in position by mounting nut of switch. Mounts vertically. Shpg. wt. per pkg., 2 oz.

34 B 504, Per Pkg. of 2..... 8c



Provide long life and dependability in radio and fractional horsepower applications. All have bakelite insulation; with laminated phenolic ends and are nickel-finished. Solder lug terminals. Positive action. With one hex nut and one knurled nut.  $1\frac{1}{2}$ " diameter shanks. Approved. Shpg. wt., 2 oz.

Ruggedly built A-H and H bat handle toggle switches. All have bakelite insulation. Silver-plated lug terminals, except for 80602-CA and 80607-BJ which have screw type terminals. Shank,  $\frac{1}{4}$ " dia.,  $\frac{1}{2}$ " long, except  $\frac{1}{4}$ " long,  $\frac{1}{4}$ " long. †Center-off. With mtg. nuts. U.L. Approved. Shpg. wt., each, 3 oz.; 20 switches, 3 lbs.

**H** High capacity, slow make and break toggle switches designed for AC power applications. Feature small phenolic bases and fine silver contacts plus rugged, ball-joint construction for long life expectancy. 3-position, center-off design. Nickel-plated finish. Solder terminals.  $1\frac{1}{16}$ " toggle,  $1\frac{1}{32}$ " dia. shank  $1\frac{1}{32}$ " long. Body,  $1\frac{1}{16}$ "x $1\frac{1}{16}$ "x1" deep. U.L. Approved. Shpg. wt., 3 oz.

compact, toggle-operated power switches for motors and appliances. Quick make and break with wiping blade action. Type 80600 rated 2, 250 volts. U.L. Approved. Bakelite case. Screw terminals. Shank, dia.  $\frac{5}{16}$ " long. With mtg. nuts. Shpg. wt., 2 oz.

All are momentary contact, except †push on-push off types. \*Indicates normally open. AC-DC, except ‡AC only. All have 1 $\frac{1}{2}$ " diameter shanks  $\frac{1}{16}$ " long, except Type 80630,  $\frac{3}{16}$ " long. All have solder lug terminals except 80630 which has screw type terminals. Av. shpg. wt., 3 oz.

nained contact, rotary switches for replacement or new equipment in lamps, appliances, etc. **Type 41047** is a direct replacement for y wall-type and desk-type lamps. It is equipped with 6" wire leads, a brass finished metal handle, and a  $\frac{3}{8}$ " diameter shank  $\frac{3}{8}$ " long. **es 81715-G and 81727-G** are ideal for medium current AC-DC lamps. They are equipped with solder lug terminals, a molded nolic base, an  $\frac{1}{16}$ " diameter shank  $\frac{3}{8}$ " long, and a  $\frac{1}{4}$ " spindle section  $\frac{1}{8}$ " long. Av. shpg. wt., 2 oz.



**L** Type 81715-L. Lockswitch with key. 1 SPST. 3 amps @ 250 v.; 6 amps @ 125 v. Sleeve dia.,  $1\frac{1}{2}$ ". For panels to  $\frac{3}{4}$ ".  $1\frac{1}{4} \times 1\frac{1}{2}$ ". Switch must be open to remove key. 2 oz.

|           |            |          |          |      |
|-----------|------------|----------|----------|------|
| 34 B 156. | 10-99,     | EA. 1.34 | 1-9, EA. | 1.63 |
| 34 B 128. | Extra key. | 2 oz.    | NET.     | 1.60 |

selection of low-cost, dependable switches produced by leading manufacturers. Require very little mounting space. Adaptable to many uses in appliances, hi-fi equipment, radios, etc. Corrosion-resistant steel housings.  $1\frac{3}{8}$ " wide x  $1\frac{1}{2}$ " long. Mounting centers,  $1\frac{1}{8}$ ". Type SS-6 has  $\frac{3}{16}$ " bevel gear with prong guide. Solder terminals, spring return. \*Has screw terminals. are U.L. Approved. Av. shpg. wt., 3 oz.

**Type 81569.** Indicating type.  
3 amps @ 250 v.; 6 amps @  
125 v. Requires  $1\frac{1}{8} \times \frac{1}{16}$ "  
cutout. U.L. Approved. 2  $\frac{1}{4}$   
 $\times \frac{3}{4}$ " 2 oz.; 20, 1  $\frac{1}{4}$  lbs. **79c**  
10-Up, EACH..... **96c**

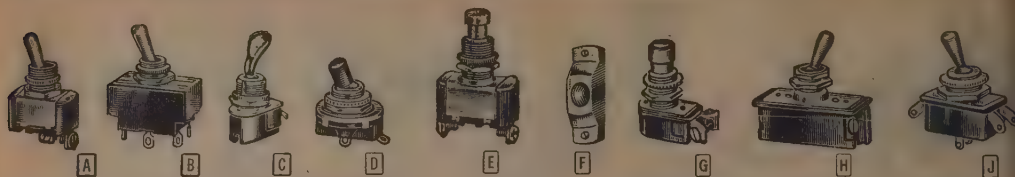
ick make-and-break  
s, positive-action  
s. Reduce capacity  
various audio-visual  
applications. Widely  
rd in studio broadcast  
s, etc. All normally op.  
roller-type to provide  
on. Master spring blades  
phor bronze with pure  
ulating coil and bakel-  
chrome faceplate. Alu-  
e 5/16". Av. shpg. wt. 5 oz.

**[M]** For Toggle or Rotary Switches.  $1\frac{1}{8}$ " diameter polished aluminum plate. Has  $\frac{1}{2}$ " hole. Attractive appearance, letters etched on black background. Keyed. 2 oz.

**N** For Toggle Switches.  
Keyed, nickeled, "On-Off"  
plate.  $\frac{1}{2}$ " hole for switch shank.  
Wt. 6 oz.  
34 B 145. Pkg. of 25... 59c  
33 B 857. 2 oz. Pkg. of 2... 8c

**Switches.** Nickel-plated brass. Reads "On-Off". Keyed to fit  $1\frac{1}{2}$ " diameter shaft. Shpg. wt. per pkg., 2 oz.  
34 B 157. Package of 2... 8¢

# Carling, Grayhill and Ohmite Switches



## CARLING TOGGLE AND PUSHBUTTON SWITCHES

### MOMENTARY AC TOGGLE SWITCHES

A selection of dependable bat-handled toggle switches designed for AC applications. Circuit maintained only while switch handle is held in position. A spring returns handle to previous position when handle is released. Excellent for test equipment, control panels, instrumentation, etc. \*3-position with center "Off," momentary either side. ‡3-position with center "Off," one side momentary, other side maintained. Handle is  $1\frac{1}{4}$ " long. Stem length,  $1\frac{1}{2}$ "; dia.  $1\frac{1}{2}$ "-32 thread. Screw terminals. U.L. Approved. Shpg. wt., 3 oz.

| Stock No. | Mfr's Type | Fig. | Action    | Amperes 125 V 250 V | 1-9, EACH | 10-99, EACH |
|-----------|------------|------|-----------|---------------------|-----------|-------------|
| 34 B 056  | 6FA54-73   | A    | SPST n.o. | 15                  | 10        | .68         |
| 34 B 388  | 6FC54-73   | A    | SPDT*     | 15                  | 10        | .78         |
| 34 B 059  | 6FC58-73   | A    | SPDT†     | 15                  | 10        | .78         |
| 34 B 062  | 6GK54-73   | B    | DPST n.o. | 15                  | 10        | 1.11        |
| 34 B 065  | 6GMS4-73   | B    | DPDT*     | 15                  | 10        | 1.22        |
| 34 B 392  | 6GMS8-73   | B    | DPDT†     | 15                  | 10        | 1.22        |

### MOMENTARY SPST AC-DC TOGGLE SWITCH

C Type 110-M-NO-93. With trigger handle. For instrumentation and test equipment use. Normally open. Lugs are silver-plated. AC-DC rating: 6 amps, 125 volts; 3 amps, 250 volts. Stem length,  $1\frac{1}{2}$ ". Stem dia.,  $1\frac{1}{2}$ "-32 thread. U.L. Approved. 3 oz.

34 B 149. 10-99, EACH.....61¢ 1-9, EACH.....68¢

### HEAVY-DUTY PLASTIC-TOGGLE AC SWITCHES

D Extremely compact AC switches for limited space applications. Require only  $\frac{1}{2}$ " behind panels. Ideal for instrumentation and development use. Rated 15 amps at 125 v and  $7\frac{1}{2}$  amps at 250 v. Solder lug terminals.  $1\frac{1}{2}$ "-32 threaded stem;  $\frac{1}{4}$ " stem length. U.L. Approved. Shpg. wt., 2 oz.

| Stock No. | Type     | Color | Action | 1-9, EA. | 10-99, EA. |
|-----------|----------|-------|--------|----------|------------|
| 34 B 312  | AA252-BL | Black | SPST   | 48¢      | 43¢        |
| 34 B 313  | AA252-RD | Red   | SPST   | 51¢      | 46¢        |

### PUSHBUTTON SWITCHES

All are single-pole single-throw, normally open switches except \* which is normally closed, and † which is a "push-push" switch (maintains open or closed contacts). ‡ Doorbell type.  $1\frac{1}{2}$ " dia. stem,  $\frac{1}{2}$ " long. Shpg. wt., 3 oz.

| Stock No. | Mfr's Type | Figure | Amperes 125 V 250 V | NET EACH |
|-----------|------------|--------|---------------------|----------|
| 35 B 935  | FA-754     | E      | 15 10               | 64¢ 60¢  |
| 35 B 936  | FA-758*    | E      | 15 10               | 64¢ 60¢  |
| 34 B 168  | 110-SP†    | F      | 6 3                 | 95¢ 85¢  |
| 35 B 527  | 90         | G      | 6 3                 | 15¢ 12¢  |

### OHMITE POWER-TAP SWITCHES

Rugged power tap switches for a wide variety of high-current applications. Large silver contacts, ceramic body. Model 111 rated 10 amps at 150 volts, AC; diameter is  $1\frac{1}{4}$ ". Model 212 rated 15 amps at 150 volts, AC; diameter is  $2\frac{1}{4}$ ". \*Two-in-tandem types, rated same as single units. U.L. Approved. Shpg. wt., 111, 5 oz.; 212, 10 oz.

#### MODEL 111

| Stock No. | Taps | Rotation | NET EACH | Stock No. | Taps | Rotation | NET EACH |
|-----------|------|----------|----------|-----------|------|----------|----------|
| 34 B 226  | 2    | 30°      | 3.63     | 34 B 238  | 3    | 60°      | 7.27     |
| 34 B 227  | 3    | 60°      | 3.74     | 34 B 239  | 4    | 90°      | 7.45     |
| 34 B 228  | 4    | 90°      | 3.86     | 34 B 222  | 4*   | 90°      | 18.13    |
| 34 B 229  | 5    | 120°     | 3.98     | 34 B 240  | 5    | 120°     | 7.62     |
| 34 B 220  | 5*   | 120°     | 11.19    | 34 B 241  | 6    | 150°     | 7.80     |
| 34 B 230  | 6    | 150°     | 4.10     | 34 B 321  | 6*   | 150°     | 18.84    |
| 34 B 231  | 7    | 180°     | 4.21     | 34 B 242  | 7    | 180°     | 8.15     |
| 34 B 232  | 8    | 210°     | 4.33     | 34 B 243  | 8    | 210°     | 8.33     |
| 34 B 233  | 9    | 240°     | 4.45     | 34 B 244  | 9    | 240°     | 8.51     |
| 34 B 234  | 10   | 270°     | 4.57     | 34 B 245  | 10   | 270°     | 8.51     |
| 34 B 235  | 11   | 300°     | 4.68     | 34 B 247  | 12   | 330°     | 8.86     |
| 34 B 293  | 11*  | 300°     | 12.60    |           |      |          |          |

#### MODEL 212

| Stock No. | Taps | Rotation | NET EACH | Stock No. | Taps | Rotation | NET EACH |
|-----------|------|----------|----------|-----------|------|----------|----------|
| 34 B 226  | 2    | 30°      | 3.63     | 34 B 238  | 3    | 60°      | 7.27     |
| 34 B 227  | 3    | 60°      | 3.74     | 34 B 239  | 4    | 90°      | 7.45     |
| 34 B 228  | 4    | 90°      | 3.86     | 34 B 222  | 4*   | 90°      | 18.13    |
| 34 B 229  | 5    | 120°     | 3.98     | 34 B 240  | 5    | 120°     | 7.62     |
| 34 B 220  | 5*   | 120°     | 11.19    | 34 B 241  | 6    | 150°     | 7.80     |
| 34 B 230  | 6    | 150°     | 4.10     | 34 B 321  | 6*   | 150°     | 18.84    |
| 34 B 231  | 7    | 180°     | 4.21     | 34 B 242  | 7    | 180°     | 8.15     |
| 34 B 232  | 8    | 210°     | 4.33     | 34 B 243  | 8    | 210°     | 8.33     |
| 34 B 233  | 9    | 240°     | 4.45     | 34 B 244  | 9    | 240°     | 8.51     |
| 34 B 234  | 10   | 270°     | 4.57     | 34 B 245  | 10   | 270°     | 8.51     |
| 34 B 235  | 11   | 300°     | 4.68     | 34 B 247  | 12   | 330°     | 8.86     |
| 34 B 293  | 11*  | 300°     | 12.60    |           |      |          |          |

### EAGLE FLUSH-MOUNT PUSHBUTTON SWITCH

Type 188. Momentary contact. 6-leaf spider secures switch in  $\frac{3}{8}$ " hole. Ideal for signalling bells, lights, similar uses.  $\frac{1}{2}$ " shaft depth. Screw terminals. Contacts are SPST, normally open. Shpg. wt., 2 oz.

55 B 196. 10-Up, EACH.....31¢ 1-9, EACH.....34¢

### AC AND AC-DC TOGGLE SWITCHES

A large selection of rugged, highly dependable toggle switches for a wide range of medium and heavy-duty power applications. All toggle switches in the table below are maintained-contact style. Have bat handles,  $1\frac{1}{2}$ " stem length, except Types 110-25, 112-25, 216-25 and 316-25, which have ball-handle construction, with  $\frac{1}{4}$ " stem length. Stem diameter is  $1\frac{1}{2}$ "-32 thread on all toggle switches. \*Indicates 3-position switches, with center off. All others have 2 positions only, and no center position. †Indicates switches having screw terminals with 6-32 binding-head screws; ‡has wire leads; others have solder lugs. U.L. Approved. Av. shpg. wt., 3 oz.

#### AC TYPES

| Stock No. | Mfr's Type | Fig. | Action | Amperes 125 V 250 V | 1-9, EACH | 10-99, EACH |
|-----------|------------|------|--------|---------------------|-----------|-------------|
| 34 B 183  | 2FA53-73   | A    | SPST   | 15 10               | .48       | .43         |
| 34 B 385  | 2FA54-73†  | A    | SPST   | 15 10               | .54       | .49         |
| 34 B 425  | 2FB53-73   | A    | SPDT   | 15 10               | .54       | .49         |
| 34 B 386  | 2FB54-73†  | A    | SPDT   | 15 10               | .65       | .58         |
| 34 B 184  | 2FC53-73   | A    | SPDT*  | 15 10               | .54       | .49         |
| 34 B 387  | 2FC54-73†  | A    | SPDT*  | 15 10               | .65       | .58         |
| 34 B 187  | 2GK53-73   | B    | DPST   | 15 10               | .73       | .66         |
| 34 B 389  | 2GK54-73†  | B    | DPST   | 15 10               | .86       | .77         |
| 34 B 188  | 2GL53-73   | B    | DPDT   | 15 10               | .86       | .77         |
| 34 B 187  | 2GMS53-73  | B    | DPDT*  | 15 10               | .86       | .77         |
| 34 B 391  | 2GMS4-73†  | B    | DPDT*  | 15 10               | 1.08      | .97         |

#### AC-DC TYPES

| Stock No. | Mfr's Type | Fig. | Action | Amperes 125 V 250 V | 1-9, EACH | 10-99, EACH |
|-----------|------------|------|--------|---------------------|-----------|-------------|
| 34 B 380  | 2DA25-73†  | H    | SPST   | 12 6                | .89       | .80         |
| 34 B 181  | 2DK25-73†  | H    | DPST   | 12 6                | .89       | .80         |
| 34 B 092  | 110-25     | J    | SPST   | 6 3                 | .54       | .49         |
| 34 B 093  | 112-25     | J    | SPDT   | 3 1                 | .62       | .56         |
| 34 B 094  | 216-25     | J    | DPST   | 3 1                 | .81       | .73         |
| 34 B 379  | EA255-73†  | H    | SPST   | 15 10               | 1.49      | 1.34        |
| 34 B 182  | EK255-73†  | H    | DPST   | 15 10               | 1.49      | 1.34        |
| 34 B 095  | 316-25     | J    | DPDT   | 3 1                 | .89       | .80         |
| 34 B 096  | 2BB62-73   | J    | SPDT   | 6 3                 | .62       | .56         |
| 34 B 097  | 2BK62-73   | J    | DPST   | 6 3                 | .78       | .70         |
| 34 B 098  | 2BL62-73   | J    | DPDT   | 6 3                 | .86       | .78         |
| 34 B 180  | 111-16-73† | ...  | SPST   | 6 3                 | .46       | .41         |
| 34 B 175  | 110-73     | J    | SPST   | 6 3                 | .43       | .39         |
| 34 B 177  | 112-73     | J    | SPDT   | 3 1                 | .51       | .46         |
| 34 B 178  | 216-73     | J    | DPST   | 3 1                 | .78       | .70         |
| 34 B 179  | 316-73     | J    | DPDT   | 3 1                 | .78       | .70         |

### GRAYHILL MINIATURE SWITCHES



K Series 5000 Miniature Top Switches. Fully enclosed, designed for minimum panel space. Non-shorting type. Silver-plated copper contacts, built-in stops. All are single deck. Break 1 in.

per or carry 5 amperes, 115v. AC resistive.  $3/8$ "-32 bushing, 1-1/32" O.D. Shaft extends  $5/16$ ". Av. shpg. wt., 2 oz.

| Stock No. | Type No. | Taps | NET EACH |
|-----------|----------|------|----------|
| 35 B 923  | 5-001-2  | 2    | 1.30     |
| 35 B 924  | 5-001-3  | 3    | 1.35     |
| 35 B 925  | 5-001-4  | 4    | 1.40     |
| 35 B 926  | 5-001-5  | 5    | 1.45     |
| 35 B 927  | 5-001-6  | 6    | 1.50     |
| 35 B 928  | 5-001-7  | 7    | 1.55     |
| 35 B 929  | 5-001-8  | 8    | 1.60     |
| 35 B 930  | 5-001-9  | 9    | 1.65     |
| 35 B 931  | 5-001-10 | 10   | 1.70     |

L New Type 40-1 Lighted Pushbutton Switch. Momentary contact, SPST, normally open. Rated 1 ampere, 125 v. AC. 1-8/10" long, 25/64" mtg. hole. Solder terminals. Shpg. wt., 2 oz.

36 B 031. NET.....2.00

M Type 30-1 Subminiature Pushbutton Switch. SPST, N.O. 1 amp, 115 v. AC.  $63/64$ "x $3/8$ " dia. Solder term., red button, 2 oz.

34 B 966. NET.....95¢

34 B 967. 30-2. As above, normally closed, blk. button. NET. 95¢

N Type 39-1 Ultra-Miniature Switch. N.O., SPST.  $1/2$  amp, 115 v. AC.  $1/4$ " dia.x $19/32$ " long. Solder term., red button, 2 oz.

34 B 968. NET.....1.00

P Type 35-1 DPST Switch. N.O.  $1/2$  amp, 115 v. AC. 1-17/64" long x  $51/64$ " dia. Solder term., red button, 2 oz.

34 B 964. NET.....1.20



# Switchcraft and Acro Switches

## SWITCHCRAFT QUALITY SWITCHES

### NON-LOCKING PUSH-BUTTON TYPE SWITCHES

**Switches.** Flat frame construction provides frame able to any stack of contact springs. Simple, action movement. Excellent for replacement electric appliances and in the design of new line. Conventional spring stack assembly with tie spacers. Silver contacts rated at 3 amperes, 115 v. AC, One-piece, black button and shaft.  $\frac{3}{8}$ " diameter threaded  $\frac{1}{2}$ " long. With locknut and washer.  $\frac{3}{8}$ " o. means normally open;  $\frac{1}{2}$ " o. means normally closed. Shpg. wt., 3 oz.



| Stock No. | Mfr's Type | Action    |         | NET EACH |
|-----------|------------|-----------|---------|----------|
|           |            | Poles     | Diagram |          |
| B 994     | 1001       | SPST n.o. | I       | .62      |
| B 995     | 1002       | SPST n.c. | II      | .62      |
| B 996     | 1003       | SPDT      | III     | .71      |
| B 997     | 1004       | DPST n.o. | IV      | .76      |
| B 999     | 1006       | DPDT      | V       | 1.23     |
| B 969     | 1009       | 3PDT      | XII     |          |

**11" Switches.** For limited space applications. One-piece button and shaft. "Black button; tread button. Nickel silver contacts. Spring sections are insulated.  $\frac{3}{8}$ " threaded mounting hardware. Shpg. wt., 3 oz.



| Stock No. | Mfr's Type | Action    |         | NET EACH |
|-----------|------------|-----------|---------|----------|
|           |            | Poles     | Diagram |          |
| B 944     | 1011       | SPST n.o. | I       | .53      |
| B 945     | 1021       | SPST n.c. | II      | .53      |
| B 946     | 1031       | SPDT      | III     | .59      |
| B 947     | 201*       | SPST n.o. | I       | .53      |
| B 948     | 202*       | SPST n.c. | II      | .53      |
| B 949     | 203*       | SPDT      | III     | .59      |

### "BUTT" SWITCHES

Usually small, momentary-action push-buttons. Small size makes them ideal for replacement electric appliances and in the design of new appliances. Enclosed in metal housing; have black or red button. Types 903 and 913 are  $\frac{1}{2}$ " long; fit  $\frac{1}{8}$ " hole. Types 923 and 933 are  $\frac{3}{8}$ " long; fit  $\frac{1}{8}$ " hole. Rating: Types 903, 903D, 913, 913D are for behind-panel mounting; Types 923, 923D, 933, 933D mounting. All are rated at 250 ma, non-inductive load, AC (30 watts maximum). Shpg. wt., 2 oz.



| Stock No. | Type (Red) | Stock No. | Type (Black) | Action |         | NET EACH |
|-----------|------------|-----------|--------------|--------|---------|----------|
|           |            |           |              | Poles  | Diagram |          |
| 1414      | 903        | 35 B 418  | 913          | SPDT   | III     | .88      |
| 1415      | 903D       | 35 B 419  | 913D         | SPDT   | XI      | .88      |
| 1416      | 923        | 35 B 420  | 933          | SPDT   | III     | 1.03     |
| 1417      | 923D       | 35 B 421  | 933D         | SPDT   | XI      | 1.03     |

## SWITCHCRAFT

### SCHEMATIC DIAGRAMS



### STEVENS-WALDEN SPINTITE SWITCH WRENCHES

Specialty designed spintite wrenches for easy installation of toggle switches. Feature a very deep recess to accommodate a lat-handle type toggle switches. Wrenches equipped with wood handles. Shpg. wt., 6 oz.



| Stock No. | Type     | For Use With                  | EACH |
|-----------|----------|-------------------------------|------|
| N 056     | 3480     | A-H&H Cutter, Hammer, Carling | 2.69 |
| N 167     | 3481     | Carling                       | 2.69 |
| N 208     | 36K B625 | Switchcraft LEV-R 3000 Series | 2.79 |

### "LEV-R" TYPE SWITCHES

Ultra-compact lever-action switches. Long springs without "forms" at point of flexing insure long life. Feature soft, easy action; real detent action on locking types. Silver contacts, rated at 3 amps, 120 volts, non-inductive load. Length,  $3\frac{1}{4}$ "; width  $\frac{3}{8}$ ".  $\frac{3}{8}$ " o. means normally open;  $\frac{1}{2}$ " o. means normally closed. Types 3034 and 3034L are operated to close either of two circuits keeping the other open. Types 3035 and 3035L are operated to open one of two circuits keeping other closed. Supplied with nickel-plated brass locknut for mounting. Require a  $\frac{1}{2}$ " mounting hole. Av. shpg. wt., 3 oz.



| Spring Return |       | Locking   |        | Action     |         | NET EACH |
|---------------|-------|-----------|--------|------------|---------|----------|
| Stock No.     | Type  | Stock No. | Type   | Poles      | Diagram |          |
| 34 B 465      | 3001  | 34 B 471  | 3001L  | SPST, n.o. | I       | 1.15     |
| 34 B 466      | 3003  | 34 B 472  | 3003L  | SPDT       | III     | 1.32     |
| 34 B 467      | 3004  | 34 B 473  | 3004L  | DPST, n.o. | IV      | 1.47     |
| 34 B 468      | 3006  | 34 B 474  | 3006L  | DPDT       | V       | 2.62     |
| 34 B 469      | 3009  | 34 B 484  | 3009L  | 3PDT       | XII     | 2.00     |
| 34 B 469      | *3033 | 34 B 475  | *3033L | SPDT, n.o. | VI      | 1.47     |
| 34 B 469      | *3034 | 34 B 459  | *3034L | DP 2-Ckt†  | VII     | 1.53     |
| 34 B 468      | *3035 | 34 B 477  | *3035L | DP 2-Ckt†  | VIII    | 1.53     |
| 34 B 470      | *3036 | 34 B 479  | *3036L | DP 2-Ckt   | IX      | 1.71     |
| 34 B 471      | *3037 | 34 B 476  | *3037L | DPDT, n.o. | X       | 1.73     |

### "TINI-SWITCHES"

Subminiature push-button switches for limited space applications. For use in microphones, test instruments, intercom systems, etc. Quality constructed throughout.  $\frac{1}{8}$ " threaded shank,  $\frac{1}{8}$ " long. For low-level currents only. Require  $\frac{3}{16}$ " behind panel. "n.o." means normally open; n.c.; normally closed. Shpg. wt., 3 oz.



| Stock No. | Type (Red) | Stock No. | Type (Black) | Action*   |         | NET EACH |
|-----------|------------|-----------|--------------|-----------|---------|----------|
|           |            |           |              | Poles     | Diagram |          |
| 34 B 931  | 951        | 34 B 934  | 961          | SPST n.o. | I       | .53      |
| 34 B 931  | 952        | 34 B 935  | 962          | SPST n.c. | II      | .53      |
| 34 B 933  | 953        | 34 B 936  | 963          | SPDT      | III     | .59      |

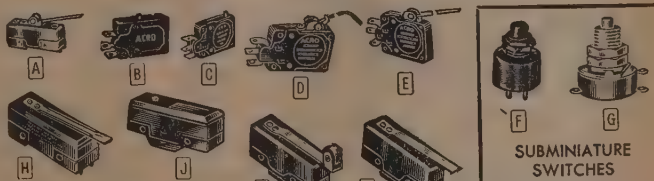
### CORD-TYPE PUSH-BUTTON SWITCHES

Hand-held switch for use on control cords. Consists of a Type 903 or a Type 913 momentary-action "button" switch (left), threaded into one end of a bright nickel-plated sleeve. Action is SPDT; Diagram III. A precision, easily operated switch for remote control of recorders, lights, counters, many other devices. Sleeve is  $\frac{1}{4}$ " diameter and  $\frac{3}{4}$ " long. Shpg. wt., 4 oz.



35 B 422, Type 903 Red. NET. 1.47  
35 B 424, Type 913 Black. NET. 1.47

## ACRO SNAP-ACTION SWITCHES



SUBMINIATURE SWITCHES

Precision-built, snap-action switches. Carefully engineered to provide smooth, extremely dependable service. Current ratings given at 125 volts AC. All are SPDT except 3D05-5P which is SPST normally open, and 3D05-5P which is SPST normally closed. Have solder terminals, except "screw terminals. TD-48L has hinged leaf actuator for very light pressure applications requiring a full rated switch. 1CMD1-1A and 2MD3-1A are standard pin plunger types; can be ganged. 1CMD1-2AXX and 2CMD1-2AXX are pin plunger coin machine types; operate on extremely light pressure. 1CMD1-2AXX-A24 has hinged flat ribbed leaf actuator assembly. QPD-5031 bracket assembly, 2CMD1-2AXX-A24 has hinged flat ribbed leaf actuator assembly. QPD-5031 bracket assembly, 2CMD1-2AXX-A24 has hinged flat ribbed leaf actuator assembly. BRD2-1A-1S is a basic switch—step base style; BRD2-2M-1S has roller leaf actuator; BRD2-2L-1S has plain leaf actuator; BRD2-70-1S is short overtravel plunger type; BRD2-1P-1S is panel mounting, overtravel plunger type. Av. shpg. wt., 4 oz.

| Stock No. | Mfr's Type     | Fig. | Oper. Force | Pre-travel       | Size                                                          | Amps | NET EACH |       |
|-----------|----------------|------|-------------|------------------|---------------------------------------------------------------|------|----------|-------|
|           |                |      |             |                  |                                                               |      | 1-9      | 10-19 |
| 35 B 016  | TD-48L         | A    | 12 gm.      | $\frac{1}{32}$ " | $2\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{16}$ "     | 10   | 2.02     | 1.82  |
| 35 B 009  | 1MD1-1A        | B    | 3-6 oz.     | $\frac{1}{32}$ " |                                                               | 10   | 1.45     | 1.31  |
| 35 B 010  | 2MD3-1A        | B    | 6-10 oz.    | $\frac{1}{32}$ " |                                                               | 19   | 1.45     | 1.31  |
| 35 B 020  | 1CMD1-2AXX     | C    | 20-27 gm.   | .040"            | $3\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ "      | 3    | 1.45     | 1.31  |
| 35 B 021  | 2CMD1-2AXX     | C    | 33-44 gm.   | .040"            |                                                               | 3    | 1.45     | 1.31  |
| 35 B 024  | 1CMD1-2AXX-A22 | D    | 2.5 gm.     | .040"            |                                                               | 3    | 1.75     | 1.58  |
| 35 B 030  | 2CMD1-2AXX-A24 | E    | 4 gm.       | .040"            | $3\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ "      | 12   | 1.75     | 1.58  |
| 35 B 028  | 3D05-5P        | F    | 10-15 oz.   | .06-.09"         | $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ " dia. | 12   | 1.75     | 1.58  |
| 35 B 029  | 3D05-5P        | F    | 10-15 oz.   | .03-.06"         | $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ " dia. | 12   | 1.75     | 1.58  |
| 35 B 328  | QPD-5031       | G    | 8 oz.       | .050"            | $1\frac{1}{2} \times 2\frac{1}{2} \times \frac{3}{16}$ "      | 10   | 1.50     | 1.17  |

### SERIES B SWITCHES WITH MICRO EQUIVALENTS

| Stock No. | Mfr's Type  | Micro Equiv. | Fig. | Oper. Force | Pre-travel | Size                                                      | Amps | NET EACH |       |
|-----------|-------------|--------------|------|-------------|------------|-----------------------------------------------------------|------|----------|-------|
|           |             |              |      |             |            |                                                           |      | 1-9      | 10-19 |
| 33 B 968  | BRD2-SI     | BZ-2R1       | H    | 4-5 oz.     | .020"      | $1\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{16}$ " | 10   | 1.65     | 1.49  |
| 33 B 969  | BRD2-1A-1S* | BZ-2R1-A2    | I    | 1-1.5 oz.   | .020"      | $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{16}$ " | 15   | 1.65     | 1.49  |
| 33 B 970  | BRD2-2M-1S* | BZ-2R1-A2    | K    | 5 oz.       | .156"      | $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{16}$ " | 15   | 2.25     | 2.03  |
| 33 B 971  | BRD2-SL-1S* | BZ-2R1-A2    | L    | 5 oz.       | .156"      | $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{16}$ " | 15   | 1.75     | 1.58  |
| 33 B 972  | BRD2-70-1S* | BZ-2R1-A2    | M    | 9-13 oz.    | .010-.025" | $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{16}$ " | 15   | 1.95     | 1.76  |
| 33 B 973  | BRD2-1P-1S* | BZ-2R1-A2    | N    | 9-13 oz.    | .010-.025" | $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{16}$ " | 15   | 3.55     | 3.20  |

Lowest Prices—Highest Quality—Best Service



## MINIATURE STEATITE SWITCHES

**PA-2000 Series.** Precision ceramic rotary switches. High Q, low-loss steatite body. Rated 2 amps @ 15 v. DC, 150 ma @ 110 v. AC. Oval-shaped,  $1\frac{1}{2} \times \frac{1}{4}$  inch diameters;  $\frac{1}{2}$  inch spacing between sections. 30° indexing. Shaft  $1\frac{1}{8}$  inch long,  $\frac{1}{4}$  inch diameter; bushing  $\frac{3}{8}$  inch long. \*2042 has 1 and 2 positions progressively shorting positions. Have adjustable stop. Include nut, lock washer and  $\frac{1}{4}$  inch pointer knob. Av. shpg. wt., 6 oz.

| Shorting       | Non-Shorting   | Sections | Total Poles | Pole Pos. | NET EACH  |
|----------------|----------------|----------|-------------|-----------|-----------|
| Stock No. Type | Stock No. Type |          |             | 1-4 5-9   |           |
| 35 B 095 *2042 |                | 1        | 1           | 2-10      | 2.16 1.80 |
| 35 B 900 2000  | 34 B 921 2001  | 1        | 1           | 2-12      | 2.37 1.98 |
| 34 B 901 2002  | 34 B 922 2003  | 1        | 2           | 2-6       | 2.37 1.98 |
| 34 B 902 2004  | 34 B 923 2005  | 2        | 2           | 2-12      | 3.39 2.83 |
| 34 B 903 2006  | 34 B 924 2007  | 1        | 3           | 2-5       | 2.37 1.98 |
| 34 B 904 2008  | 34 B 925 2009  | 3        | 3           | 2-12      | 4.32 3.60 |
| 34 B 905 2010  | 34 B 926 2011  | 2        | 4           | 2-6       | 3.39 2.83 |
| 34 B 906 2012  | 34 B 927 2013  | 3        | 4           | 2-12      | 4.32 3.60 |
| 34 B 907 2014  | 34 B 928 2015  | 1        | 5           | 2-3       | 2.37 1.98 |
| 34 B 908 2016  | 34 B 929 2017  | 5        | 5           | 2-12      | 6.21 5.18 |
| 34 B 909 2018  | 34 B 930 2019  | 1        | 6           | 2         | 2.37 1.98 |
| 34 B 910 2020  | 34 B 931 2021  | 2        | 6           | 2-5       | 3.39 2.83 |
| 34 B 911 2022  | 34 B 932 2023  | 3        | 6           | 2-6       | 4.32 3.60 |
| 34 B 912 2024  | 34 B 933 2025  | 6        | 6           | 2-12      | 7.20 6.00 |
| 34 B 913 2026  | 34 B 934 2027  | 4        | 8           | 2-6       | 5.19 4.33 |
| 34 B 935 2029  | 34 B 935 2029  | 3        | 9           | 2-5       | 4.32 3.60 |
| 34 B 936 2031  | 34 B 936 2031  | 2        | 10          | 2-3       | 3.39 2.83 |
| 34 B 940 2039  | 34 B 940 2039  | 3        | 15          | 2-3       | 4.68 3.90 |
| 34 B 941 2041  | 34 B 941 2041  | 3        | 18          | 2         | 4.68 3.90 |

## MINIATURE PHENOLIC SWITCHES

**PA-1000 Series.** Rated 2 amps @ 15 v. DC, 150 ma @ 110 v. AC. Metal is cadmium-plated. Stop,  $1\frac{1}{2} \times \frac{1}{4}$  inch diameters;  $\frac{1}{2}$  inch spacing between sections. Shaft,  $1\frac{1}{8} \times \frac{1}{4}$  inch; bushing  $\frac{3}{8} \times \frac{1}{4}$  inch. Adjustable stop. Mtg. hardware and  $\frac{1}{4}$  inch pointer knob. Shpg. wt., 5 oz.

| Shorting       | Non-Shorting   | Sections | Total Poles | Pole Pos. | NET EACH  |
|----------------|----------------|----------|-------------|-----------|-----------|
| Stock No. Type | Stock No. Type |          |             | 1-4 5-9   |           |
| 35 B 050 1000  | 35 B 065 1001  | 1        | 1           | 2-11      | 1.80 1.50 |
| 35 B 051 1002  | 35 B 066 1003  | 1        | 2           | 2-5       | 1.80 1.50 |
| 35 B 052 1004  | 35 B 067 1005  | 2        | 2           | 2-11      | 2.16 1.80 |
| 35 B 053 1006  | 35 B 068 1007  | 1        | 3           | 2-3       | 1.80 1.50 |
| 35 B 054 1008  | 35 B 069 1009  | 3        | 3           | 2-11      | 3.24 2.70 |
| 35 B 055 1010  | 35 B 070 1011  | 1        | 4           | 2         | 1.80 1.50 |
| 35 B 056 1012  | 35 B 071 1013  | 2        | 4           | 2-5       | 2.58 2.15 |
| 35 B 057 1014  | 35 B 072 1015  | 4        | 4           | 2-11      | 3.60 3.18 |
| 35 B 059 1018  | 35 B 074 1019  | 2        | 6           | 2-3       | 2.58 2.15 |
| 35 B 060 1020  | 35 B 075 1021  | 3        | 6           | 2-5       | 3.24 2.70 |
| 35 B 061 1022  | 35 B 076 1023  | 2        | 8           | 2         | 2.58 2.15 |
| 35 B 063 1026  | 35 B 078 1027  | 4        | 8           | 2-5       | 3.81 3.18 |

## SEPARATE ASSEMBLIES FOR MAKING MINIATURE SWITCHES

**Type PA Phenolic Sections Only.** Carry the same ratings as above miniature switches. Excellent RF characteristics. Adjustable stop. Use with PA-300 series index assemblies, below. With hardware, 2 oz.

| Shorting       | Non-Shorting   | Total Poles | Pole Pos. | NET EACH |
|----------------|----------------|-------------|-----------|----------|
| Stock No. Type | Stock No. Type |             |           | 1-4 5-9  |
| 35 B 080 30    | 35 B 085 31    | 2           | 2-11      |          |
| 35 B 081 32    | 35 B 086 33    | 2           | 2-5       |          |
| 35 B 082 34    | 35 B 087 35    | 3           | 2-3       | 87¢ 73¢  |
| 35 B 083 36    | 35 B 088 37    | 4           | 2         |          |

**Type PA Steatite Sections Only.** Custom and standard switches can be assembled by using these sections. For use with PA-300 Series index assemblies, shown below. Adjustable stop. Shpg. wt., 2 oz.

| Shorting       | Non-Shorting   | Total Poles | Pole Pos. | NET EACH  |
|----------------|----------------|-------------|-----------|-----------|
| Stock No. Type | Stock No. Type |             |           | 1-4 5-9   |
| 35 B 040 PA-0  | 35 B 045 PA-1  | 1           | 2-12      |           |
| 35 B 041 PA-2  | 35 B 046 PA-3  | 2           | 2-6       |           |
| 35 B 042 PA-4  | 35 B 047 PA-5  | 3           | 2-5       | 1.20 1.00 |
| 35 B 044 PA-8  | 35 B 049 PA-9  | 6           | 2         |           |
| 35 B 238 PA-11 | 35 B 240 PA-18 | 1           | 2-11      |           |

**PA-300 Series. Shaft and Index Assemblies.** Contains index, pointer knob, adjustable stop plate, spacers and fibre washers, tie bolts, nuts, lock washers and instructions. 30° indexing. Shpg. wt., 3 oz.

| Stock No. | Mfr's Type | Shaft Length | Sections | NET EACH  |
|-----------|------------|--------------|----------|-----------|
| 35 B 092  | 300        | 2"           | 1-3      | 1.8 1.15  |
| 35 B 093  | 301        | 4"           | 1-6      | 1.8 1.15  |
| 35 B 094  | 302        | 6"           | 7-9      | 2.37 1.98 |

## SERIES 2500 SWITCHES—STEATITE INSULATION



Rotary switches. Excellent for RF use. Switch,  $1\frac{1}{8} \times \frac{1}{4}$  inch diameter,  $\frac{1}{2}$  inch spacing between sections for 1 and 2 section switches.  $1\frac{1}{8}$  inch spacing for switches over 2 sections. Bushing,  $\frac{3}{8}$  inch dia.  $\times \frac{1}{4}$  inch long. Shaft,  $1\frac{1}{8}$  inch. Positive 30° index; adjustable stop. Includes mounting nut, lockwasher, and  $\frac{1}{4}$  inch pointer knob. Av. shpg. wt., 6 oz.

| Shorting       | Non-Shorting   | Sections | Total Poles | Pole Pos. | NET EACH  |
|----------------|----------------|----------|-------------|-----------|-----------|
| Stock No. Type | Stock No. Type |          |             |           | 1-4 5-9   |
| 35 B 214 2500  | 35 B 225 2501  | 1        | 1           | 2-6       |           |
| 35 B 215 2502  | 35 B 226 2503  | 1        | 1           | 2-11      |           |
| 35 B 216 2504  | 35 B 227 2504  | 1        | 1           | 2-5       | 2.82 2.35 |
| 35 B 217 2506  | 35 B 228 2507  | 1        | 3           | 2-3       |           |
| 35 B 218 2510  | 35 B 229 2511  | 2        | 2           | 2-6       |           |
| 35 B 219 2512  | 35 B 230 2512  | 2        | 2           | 2-11      |           |
| 35 B 220 2514  | 35 B 231 2515  | 2        | 4           | 2-5       | 4.02 3.35 |
| 35 B 221 2516  | 35 B 232 2517  | 2        | 6           | 2-3       |           |
| 35 B 223 2522  | 35 B 201 2523  | 3        | 3           | 2-11      | 5.16 4.30 |



## UNIVERSAL AND INTERCOM SWITCHES

High-quality rotary action switches. Have laminated phenolic sections  $\frac{1}{4}$  inch thick. Voltage breakdown is 1000 volts rms to ground. Rating: 2 amp at 15 v. DC; 180 ma at 110 v. AC. Metal is cadmium-plated. All are 30° indexing except 1443 and 1445 which are 15°. Shaft  $1\frac{1}{8}$  inch long,  $\frac{1}{4}$  inch dia. full round. Bushing,  $\frac{3}{8}$  inch  $\times \frac{1}{4}$  inch long. \*171 behind panel,  $\frac{1}{4}$  inch behind panel. \*Positive in 2 pos., spring return in 3rd. All are non-shorting except 1. Av. shpg. wt., 4 oz.

| Stock No. | Mfr's Type | Description                 | NET EACH  |
|-----------|------------|-----------------------------|-----------|
|           |            | 1-4 5-9                     |           |
| 34 B 088  | 1443*      | SP, 23 pos., with stop      | 2.16 1.80 |
| 34 B 085  | 1450*      | 4PDT                        | 1.26 1.00 |
| 34 B 087  | 1451*      | 4PDT, spring-return         | 1.44 1.20 |
| 34 B 071  | 1448*      | 6P, 3 pos., spring-return   | 1.98 1.60 |
| 34 B 072  | 1449*      | 6P, 3 pos.                  | 1.98 1.60 |
| 34 B 074  | 1445*      | SP, 23 pos., cont. rotation | 2.16 1.80 |

## INTERCOM AND RADIO SWITCHES

Rotary switches for use in radio-phonos, P.A. channel selectors, meter switching, intercom talk-listen and speaker switching. Silver-plated spring brass clips; cadmium-plated metal parts. Rated 2 amps at 15 v. DC, 150 ma at 110 v. AC. Shaft,  $\frac{1}{4}$  inch dia.,  $2\frac{1}{2}$  inch long. Shorting contacts except 1472. 13 active positions with 3 amp., 110 v. AC switch. 1472 is for AM-FM-phono selector use. Av. shpg. wt., 5 oz.

| Stock No. | Mfr's Type | Description              | NET EACH  |
|-----------|------------|--------------------------|-----------|
|           |            | 1-4 5-9                  |           |
| 34 B 080  | 1460       | SPDT phono-radio switch. |           |
| 34 B 081  | 1461       | SP-3 position selector   | 1.08 .90  |
| 34 B 082  | 1462       | DPDT bandswitch          |           |
| 34 B 083  | 1463*      | SPDT spring return       |           |
| 34 B 084  | 1464*      | DPDT spring return       | 1.08 .90  |
| 35 B 235  | 1472*      | DP-3 position            |           |
| 34 B 073  | 1465*      | SP-4 position W/AC sw.   | 1.80 1.50 |

## LEVER-ACTION SWITCHES



Low capacity. Use singly or in groups. \*Shorting type; others non-shortening. Front plate and lever cadmium-plated. Index: \*Positive; \*Spring-Return. 1476, 1478 are Positive and Spring Return, 1475, tube tester replacement switch.  $1\frac{1}{2} \times \frac{1}{4}$  inch. Mtg. ctrs.,  $1\frac{1}{8}$  inch. Knob and mtg. screws. Av. wt., 3 oz.

| Stock No. | Type   | Stock No. | Type  | Poles | Pos. | 1-4, EA. | 5-9, EA. |
|-----------|--------|-----------|-------|-------|------|----------|----------|
| 34 B 021  | 1452** | 34 B 026  | 1454* | 2     | 3    | 1.26     | 1.05     |
| 34 B 022  | 1453** | 34 B 027  | 1455* | 2     | 3    | 1.26     | 1.05     |
| 34 B 025  | 1456** | 34 B 030  | 1457* | 4     | 2    | 1.44     | 1.20     |
| 34 B 024  | 1459** | 34 B 029  | 1458* | 4     | 2    | 1.44     | 1.20     |
| 34 B 023  | 1466** | 4         | 028   | 1467  | 2    | 3        | 1.26     |
|           |        | 35 B 198  | 1475* | 1     | 3    | 1.26     | 1.05     |

**MOUNTING PLATES.** For single or multiple mounting of lever-action switches. Black wrinkle finish steel. \*Chrome-plated. Av. shpg. wt., 4 oz.

| Stock No. | Type  | Switches | Size                                    | 1-4, EA. | 5-9, EA. |
|-----------|-------|----------|-----------------------------------------|----------|----------|
| 34 B 050  | P1755 | 1        | $\frac{3}{4} \times 2\frac{1}{2}$ inch  | 30¢      | 25¢      |
| 34 B 051  | P1756 | 2        | $1\frac{1}{2} \times 2\frac{1}{2}$ inch | 30¢      | 25¢      |
| 34 B 052  | P1757 | 3        | $2\frac{1}{2} \times 2\frac{1}{2}$ inch | 30¢      | 25¢      |
| 34 B 053  | P1758 | 4        | $3\frac{1}{2} \times 2\frac{1}{2}$ inch | 30¢      | 25¢      |
| 34 B 060  | P221  | 2        | $2\frac{1}{4} \times \frac{1}{2}$ inch  | 63¢      | 53¢      |
| 34 B 061  | P222* | 1        | $2\frac{1}{4} \times \frac{1}{2}$ inch  | 63¢      | 53¢      |

## SERIES 1400 SWITCHES—PHENOLIC INSULATION



Laminated phenolic-insulated rotary switch for use in band change and general tap switch applications. Compact design. Size:  $1\frac{1}{2} \times \frac{1}{4}$  inch diameter,  $\frac{1}{2}$  inch shaft,  $1\frac{1}{8}$  inch. Rating: 2 amps at 15 v. DC; 150 ma at 110 v. AC. Has positive 30° indexing. With mtg. nut, washer,  $\frac{1}{4}$  inch knob. Av. shpg. wt., 6 oz.

| Shorting       | Non-Shorting   | Sections | Total Poles | Pole Pos. | NET EACH  |
|----------------|----------------|----------|-------------|-----------|-----------|
| Stock No. Type | Stock No. Type |          |             |           | 1-4 5-9   |
| 35 B 182 1400  | 35 B 163 1401  | 1        | 1           | 2-6       |           |
| 35 B 183 1402  | 35 B 164 1403  | 1        | 1           | 2-11      |           |
| 35 B 184 1404  | 35 B 165 1405  | 1        | 2           | 2-5       | 2.52 2.10 |
| 35 B 186 1408  | 35 B 167 1409  | 1        | 4           | 2-3       |           |
| 35 B 187 1410  | 35 B 168 1411  | 2        | 2           | 2-6       |           |
| 35 B 188 1412  | 35 B 169 1413  | 2        | 2           | 2-11      |           |
| 35 B 189 1414  | 35 B 170 1415  | 4        | 2           | 2-5       | 3.06 2.55 |
| 35 B 191 1418  | 35 B 171 1417  | 2        | 6           | 2-3       |           |
|                | 35 B 172 1419  | 2        | 8           | 2         |           |
|                | 35 B 174 1423  | 3        | 3           | 2-11      | 3.90 3.25 |
|                | 35 B 175 1425  | 3        | 3           | 2-5       | 2.90 2.35 |
| 35 B 197 1430  | 35 B 178 1431  | 4        | 8           | 2-5       | 4.50 3.75 |

**P-270 Series. Shaft and Index Assemblies.** Complete hardware for 1400 Series switches, above. Also fits 2500 series steatite sections. (Spacers, tie-rods, etc.). 30° indexing. Shpg. wt., 3 oz.

| Stock No. | Type  | Shaft | Sections | 1-4, EA. | 5-9, EA. |
|-----------|-------|-------|----------|----------|----------|
| 35 B 497  | P-270 | 2"    | 1-3      | 1.65     | 1.38     |
| 35 B 499  | P-272 | 8"    | 6-10     | 2.85     | 2.38     |

## AUTO RADIO SPEAKER SWITCH

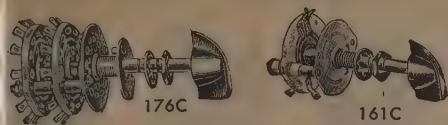


**Type PK300 Switch Kit.** Contains a complete assembly for switching between dual speakers such as auto rear seat and front seat. Etched dial-mounting plate; dual speaker switch. Pointer knob is black, split knurl. With 34 B 077. NET... 90c

34 B 086. Type 1483 Switch. SP-3 pos. switch for rear deck auto speaker. 2 amp @ 15 v. DC. Silver-plated contacts. 2 oz. NET... 75¢



## CERAMIC-SECTION SELECTOR SWITCHES



contact ceramic-section selector switches. For minimum RF losses. No non-shorting. Silver plated contacts. Maximum non-breaking current-resistive load, 10 amps. 2 gang have wafers spaced  $\frac{1}{2}$ " apart except  $\frac{1}{4}$ " 190C,  $\frac{1}{4}$ " base dia. use plates below and at right. 2" grooved knob and hardware. \*Additional "Off" position. Rated 500 v. AC except \$1000 v. DC and 100 watts. 500-v. types have adjustable Av. shpg. wt., 8 oz.

| Stock No. | Mfr's Types | Gangs | Total Poles | Positions Per Pole | NET EACH |      |
|-----------|-------------|-------|-------------|--------------------|----------|------|
|           |             |       |             |                    | 1-4      | 5-9  |
| B 327     | 172C        | 1     | 1           | 2-11               |          |      |
| B 328     | 173C        | 1     | 2           | 2-5                | 2.38     | 1.98 |
| B 329     | 174C        | 1     | 3           | 2-3                |          |      |
| B 331     | 176C        | 2     | 2           | 2-11               | 3.38     | 2.82 |
| B 332     | 177C        | 2     | 4           | 2-3                |          |      |
| B 333     | 178C        | 2     | 6           | 2-3                |          |      |
| B 335     | 180C        | 3     | 3           | 2-11               | 4.32     | 3.60 |
| B 336     | 181C        | 3     | 6           | 2-5                |          |      |
| B 337     | 161C        | 1     | 1           | 4                  | 2.16     | 1.80 |
| B 338     | 162C        | 2     | 2           | 4                  | 3.06     | 2.55 |
| B 339     | 163C        | 3     | 3           | 4                  | 3.96     | 3.30 |
| B 340     | 164C        | 4     | 4           | 4                  | 4.86     | 4.05 |
| B 341     | 165C        | 5     | 5           | 4                  | 5.76     | 4.80 |

B 488 Dial Plate. For 160C switches, above. Shpg. wt., 2 oz. \$1.68, NET.

## LEVER-ACTION SWITCHES

div-indexing, lever-action switches—with indexing or non-shorting contacts. Indexing in 2, 4 positions, with positions spaced 20° apart. Solid resin insulation. Maximum non-breaking current resistive load, 5 amps. With knob hardware. Shpg. wt., 4 oz.

| Shorting  |      | Non-Shorting |      | Poles | Positions Per Pole | NET EACH |      |
|-----------|------|--------------|------|-------|--------------------|----------|------|
| Stock No. | Type | Stock No.    | Type |       |                    | 1-4      | 5-9  |
| B 382     | 5124 | 34 B 383     | 5224 | 2     | 4                  | 1.37     | 1.14 |
| B 365     | 6142 |              |      | 4     | 2                  | 1.19     | .99  |
| B 366     | 6143 | 34 B 368     | 6243 | 4     | 3                  | 1.19     | .99  |

## "HAMSWITCH" TYPE 151L

for meter circuits. 2 sections, 5 positions pole per section. Non-shorting.  $\frac{2}{3}$ " section length, 60° indexing. 1000 VAC rms, 1500 VDC. With  $\frac{3}{8}$ " x  $\frac{3}{8}$ " bushing, 2x $\frac{1}{4}$ " shaft, knob, lock-washer. Shpg. wt., 6 oz.

B 318, 5-9, EACH.....2.25 1-4, EACH.....2.71

## TYPE 13124L 24-POINT TAP SWITCH

single circuit, 24 position, non-shorting switch. Continuous rotation. 24 bushings, 2" grooved shaft. Useful in test equipment. 15° indexing between positions. With knob, dial plate and hardware. 6 oz.

B 295, 5-9, EACH.....2.31 1-4, EACH.....2.77

## MINIATURE PUSH-BUTTON SWITCHES

for circuit combinations. All are non-locking. Act is made only when button is depressed. Single contacts. Frame is cadmium plated. Mount single hole,  $\frac{1}{16}$ " diameter, on panels up to  $\frac{1}{4}$ " thick. Mtg. radius is  $\frac{1}{16}$ ". Mtg. depth is  $\frac{3}{8}$ " min. (Type 1011) and  $\frac{7}{8}$ " max. (Type 1018). Voltage breakdown, 500 v. DC. Shpg. wt., 3 oz.

| Stock No. | Type | Action                 | 1-4, EA. | 5-9, EA. |
|-----------|------|------------------------|----------|----------|
| B 432     | 1011 | SPST—Make              | .67      | .57      |
| B 433     | 1012 | SPST—Break             | .67      | .57      |
| B 434     | 1013 | SPDT                   | .77      | .66      |
| B 435     | 1014 | DPST—Make 2            | .84      | .72      |
| B 436     | 1015 | DPST—Break 2           | .84      | .72      |
| B 437     | 1016 | DPDT                   | 1.02     | .87      |
| B 438     | 1017 | DP—Make 2, Break 1     | 1.02     | .87      |
| B 439     | 1018 | DPDT—Make before break | 1.41     | 1.20     |

## TYPE 1400L CIRCUIT OPENING SWITCH

any one of 12 "lines" for insertion of current reading meter while circuit is maintained on other 11 lines. Multiplying resistors may be wired so that when switch opens line, proper resistor is inserted in circuit. For test sets, tube checkers, etc. Shaft,  $\frac{1}{4}$ " dia.; length, 2". With bar knob, dial plate and hardware. Shpg. wt., 6 oz.

B 290, 5-9, EACH.....3.90 1-4, EACH.....4.59

## EDCO DELAYED-ACTION WALL SWITCH

"Path of Light" delayed-action light switch provides illumination long enough for you to walk safely out before lights off. Helps prevent accidents from groping and stumbling in the dark after you turn the lights on. Ideal for workshop, apartment, garage, office, porch, etc. Shaft,  $\frac{1}{4}$ " dia.; length, 2". Easily install—replaces toggle switch in standard wall boxes. Capacity: 10 amps @ 125 volts. Shpg. wt., 5 oz.

B 526, NET.....2.36

## TYPE 1200L & 1300L MULTI-GANG SWITCHES

Versatile multi-gang switches for servicing and industrial applications. Have 1 fixed and 1 adjustable stop, silver-plated contacts, solid silver rotor contact slugs, and phosphor-bronze springs. 3- and 4-gang spaced  $\frac{1}{4}$ "; all others  $\frac{1}{2}$ ". 2" notched shaft. Shorting-type make before break. Require  $\frac{7}{8}$ " mtg. hole. With bar knob and hardware, less mtg. plate. Use 34 BB 600 plates below. \*With additional "off" positions with all circuits open. Av. shpg. wt., 8 oz.



| Shorting  |        | Non-Shorting |        | Gangs | Total Poles | Pos. Per Pole | NET EACH |      |
|-----------|--------|--------------|--------|-------|-------------|---------------|----------|------|
| Stock No. | Type   | Stock No.    | Type   |       |             |               | 1-4      | 5-9  |
| 34 B 201  | 1211L  | 34 B 251     | 1311L  | 1     | 1           | 2-11          |          |      |
| 34 B 202  | 1215L* | 34 B 252     | 1315L* | 1     | 2           | 2-5           | 2.09     | 1.74 |
| 34 B 203  | 1213L  | 34 B 253     | 1313L* | 1     | 3           | 2-5           |          |      |
| 34 B 204  | 1212L* | 34 B 254     | 1312L* | 1     | 4           | 2             |          |      |
| 34 B 206  | 1221L  | 34 B 256     | 1321L  | 2     | 2           | 2-11          |          |      |
| 34 B 207  | 1225L* | 34 B 257     | 1325L* | 2     | 4           | 2-5           | 2.59     | 2.16 |
| 34 B 208  | 1223L* | 34 B 258     | 1323L* | 2     | 6           | 2-3           |          |      |
| 34 B 209  | 1222L* | 34 B 259     | 1322L* | 2     | 8           | 2             |          |      |
| 34 B 211  | 1231L  | 34 B 261     | 1331L  | 3     | 3           | 2-11          | 3.24     | 2.70 |
| 34 B 212  | 1235L* | 34 B 262     | 1335L* | 3     | 6           | 2-5           | 3.24     | 2.70 |
| 34 B 214  | 1241L  | 34 B 264     | 1341L  | 4     | 4           | 2-11          | 3.62     | 3.18 |
| 34 B 215  | 1245L* | 34 B 265     | 1345L* | 4     | 8           | 2-5           | 3.82     | 3.18 |
| 34 B 216  | 1251L  | 34 B 266     | 1351L  | 5     | 5           | 2-11          | 4.10     | 3.42 |
| 34 B 217  | 1256L  | 34 B 267     | 1356L  | 5     | 10          | 2-6           | 4.54     | 3.78 |
| 34 B 218  | 1261L  | 34 B 268     | 1361L  | 6     | 6           | 2-11          | 4.82     | 4.02 |
| 34 B 219  | 1266L* | 34 B 269     | 1366L* | 6     | 12          | 2-6           | 5.51     | 4.59 |

## 3100J & 3200J SINGLE-GANG SWITCHES

Compact, enclosed, low-voltage switches. Have 2" notched shaft,  $\frac{1}{4}$ " threaded bushing,  $\frac{1}{4}$ " long. With bar knob and nut. All  $\frac{1}{16}$ " base dia. types have adjustable stops. For band switching, etc. Use dial plates listed below. Shpg. wt., 4 oz.



| Shorting  |       | Non-Shorting |       | Poles | Positions | Base Dia. | NET EACH |      |
|-----------|-------|--------------|-------|-------|-----------|-----------|----------|------|
| Stock No. | Type  | Stock No.    | Type  |       |           |           | 1-4      | 5-9  |
| 34 B 300  | 3115J | 34 B 350     | 3215J | 1     | 5         | 1 1/4"    |          |      |
| 34 B 301  | 3112J | 34 B 351     | 3212J | 1     | 12        | 1 1/4"    | 1.01     | .84  |
| 34 B 302  | 3122J | 34 B 352     | 3222J | 2     | 2         | 1 1/4"    |          |      |
| 34 B 303  | 3123J | 34 B 353     | 3223J | 2     | 3         | 1 1/4"    |          |      |
| 34 B 304  | 3126J | 34 B 354     | 3226J | 2     | 6         | 1 1/4"    |          |      |
| 34 B 305  | 3134J | 34 B 355     | 3234J | 3     | 4         | 1 1/4"    | 1.04     | .87  |
| 34 B 306  | 3142J | 34 B 356     | 3242J | 4     | 2         | 1 1/4"    | 1.04     | .87  |
| 34 B 307  | 3143J | 34 B 357     | 3243J | 4     | 3         | 1 1/4"    | 1.04     | .87  |
| 34 B 308  | 3117J | 34 B 358     | 3217J | 1     | 2-17      | 1 1/4"    | 1.55     | 1.29 |
| 34 B 309  | 3129J | 34 B 359     | 3229J | 2     | 2-9       | 1 1/4"    | 1.55     | 1.29 |
| 34 B 310  | 3136J | 34 B 360     | 3236J | 3     | 2-6       | 1 1/4"    | 1.66     | 1.38 |
| 34 B 311  | 3163J | 34 B 361     | 3263J | 6     | 2-3       | 1 1/4"    | 1.66     | 1.38 |

## DIAL PLATES

Wide selection of dial plates for switches, potentiometers and rheostats. Types 372 to 390 for switches 1200L, 1300L and for 3100J and 3200J with  $\frac{1}{16}$ " bases; 453 to 486 for switches 3100J and 3200J with  $\frac{1}{16}$ " bases. Etched aluminum. Black background.  $\frac{1}{16}$ " dia.  $\frac{7}{8}$ " hole. Shpg. wt., 2 oz.



## 30° SPACING FOR 1 1/4" BASE SWITCHES

| Type | Marking    | Type | Marking     | Type | Marking    | Type | Marking     |
|------|------------|------|-------------|------|------------|------|-------------|
| 372  | 1 to 2     | 384  | Off 1 to 2  | 453  | 1 to 3     | 474  | Off 1 to 4  |
| 373  | 1 to 3     | 385  | Off 1 to 5  | 454  | 1 to 4     | 475  | Off 1 to 5  |
| 374  | 1 to 4     | 386  | Off 1 to 5  | 455  | 1 to 5     | 476  | Off 1 to 6  |
| 375  | 1 to 5     | 387  | Off 1 to 7  | 456  | 1 to 6     | 477  | Off 1 to 7  |
| 376  | 1 to 6     | 388  | Off 1 to 8  | 457  | 1 to 7     | 478  | Off 1 to 8  |
| 377  | 1 to 7     | 389  | Off 1 to 10 | 458  | 1 to 8     | 479  | Off 1 to 9  |
| 378  | 1 to 8     | 390  | Off 1 to 10 | 459  | 1 to 9     | 480  | Off 1 to 10 |
| 379  | 1 to 9     |      |             | 460  | 1 to 10    | 481  | Off 1 to 11 |
| 380  | 1 to 10    |      |             | 461  | 1 to 11    | 482  | Off 1 to 12 |
| 381  | 1 to 11    |      |             | 462  | 1 to 12    | 483  | Off 1 to 13 |
| 382  | 1 to 12    |      |             | 467  | 1 to 17    | 484  | Off 1 to 14 |
| 383  | Off 1 to 3 |      |             | 473  | Off 1 to 3 | 486  | Off 1 to 16 |

34 BB 600. Specify Type. 34 BB 650. Specify Type. 12c

## FOR POTENTIOMETERS AND RHEOSTATS

| Stock No. | Mfr's Type | Description                            | NET EACH |
|-----------|------------|----------------------------------------|----------|
| 34 B 670  | 369        | 0-100 plate for volume control         | 21c      |
| 34 B 620  | 391        | Increase type plate for volume control | 21c      |
| 34 B 622  | 393        | 0-10 plate for rheostats and pots      | 21c      |
| 34 B 624  | 396        | 0-10 plate for wire-wound controls     | 21c      |
| 34 B 623  | 394        | 1-24 position; 15° opening             | 12c      |

## RB254 UNIVERSAL MOUNTING BRACKET

"L" shaped Universal Mounting Bracket for baseboard or rear support mounting of all Mallory circuit selector switches, volume controls and jacks. Shpg. wt., 2 oz.

34 B 420, NET.....15c

## LARGEST STOCKS—BEST SERVICE

Make Allied your headquarters for all your electronic needs. Our largest stocks and world's finest order-handling facilities assure you of immediate shipment.

# Time Switches—Program and Clock Timers

## POPULAR INTER-MATIC TIME SWITCHES



**"SKIPPER"  
TIME  
SWITCHES**

Handle up to 12  
On-Off operations—  
Can be set to skip  
one or more days—  
U.I. Approved

**Type T171**

Permit "skipping" control cycle. Have 2 dials: a time dial and a day dial. To skip any days, small skipping screws are inserted into the day dial. "On" and "off" trippers are set in the time dial. Special "cutout" tripper advances the day dial every 24 hours. Up to 12 operations per day can be obtained by adding trippers. Range: minimum "on" or "off", 1 hour; maximum, 23 hours. Silver contacts are rated 40 amps (4375 watts, tungsten) at 125 volts.  $7\frac{1}{2} \times 5 \times 3$ ". For 110-120 volts, 60 cycle AC. Shpg. wt., 4 lbs.

| Stock No. | Type | Action | List    | NET   |
|-----------|------|--------|---------|-------|
| 78 B 315  | T171 | SPST   | \$16.95 | 11.02 |
| 78 B 316  | T173 | DPST   | 18.95   | 12.32 |
| 78 B 317  | T175 | SPDT   | 18.95   | 12.32 |

### TRIPPERS & SKIPPING SCREWS

Type 107T19A. On-Cutout Trippers. For "Skipper" types only. 3 oz.

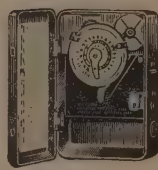
78 B 319. NET EACH.....20c

Type 79T8A. Skipping Screws. For "Skipper" types only. 8 oz.

78 B 364. Pkg. of 2, EACH PKG....10¢

Type 107T8A. "On and Off" Trippers. For Inter-matics, except T185. 2 oz.

78 B 324. NET PER SET.....26¢



**T101**



**P101**

### TYPE T101 TIME SWITCH

SPST time switch turns equipment "on" and "off" once in 24 hours. With extra trippers (uses Type 107T8A, at left) will operate up to 12 times a day. Minimum time between settings is 1 hour. Contacts handle 40 amps (4375 watts, tungsten rated) at 125 volt, 60 cycle.  $5 \times 3 \times 7\frac{1}{2}$ ". U.I. Approved. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 4 lbs.

78 B 322. List, \$11.95. NET.....7.77

Type T103. As above, but DPST.

78 B 321. List, \$13.95. NET.....9.07

Adapter Kit. Makes above units portable. Supplied complete with 6 ft. cord, plug, etc. 10 amps. Shpg. wt., 1 lb.

78 B 323. NET.....11.2

### TYPE P101 TIME SWITCH

Portable type, SPST plug-in time switch. Easily set for from 1 to 12 on-off operations per day. Minimum "on" or "off" time, 1 hr.; maximum, 23 hrs. Controls lamps, signs, radios, TV sets, etc. Can be used with up to twelve trippers. May also be manually operated. Capacity: 10 amps at 125 volts.  $5 \times 3 \times 7\frac{1}{2}$ ". U.I. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 4 lbs.

78 B 314. List, \$13.98. NET.....9.07



**T185**



**T965**

### TYPE T185 TIME SWITCH

Provides up to 14 "on-off" cycles. Each cycle is independently controlled and can vary from 5-60 min. Minimum interval between cycles, 1½ hrs. Can be used as SPST normally open; SPST normally closed; or SPST. Perfect for applications requiring more than one "on-off" cycle in a 24-hour period. Up to 12 trippers may be placed on the 24-hour time dial at one time. Rated 40 amps (4375 watts, tungsten rated), 125 v., AC. With 3 trippers (1 for each "on-off" cycle).  $7\frac{1}{2} \times 5 \times 3$ ". U.I. Approved. For 110-120 volts, 60 cycle AC. Shpg. wt., 4 lbs.

78 B 313. List, \$17.95. NET.....11.67

Extra Trippers. For above. 4 oz.

78 B 336. NET EACH.....92¢

### TYPE T965 TIME SWITCH

Program timer for up to 96 operations in a 24 hour period. Minimum "on" or "off" period is 15 minutes. Can be used for 24 hour control of heating and air conditioning systems. Ideal for industrial music systems. Switch is SPST type, rated 20 amps. Synchronous motor is low speed, high torque type.  $7\frac{1}{2} \times 5 \times 3$ ". U.I. Approved. For 110-120 v., 60 cycle AC. Wt., 3 lbs.

78 B 395. List \$37.50. NET.....24.38

## TORK TIME SWITCHES—PROGRAM TIMER



**919T**



**8001**



**4100**



**4100**

- Plug-in Cord
- Easy to Use

### MODEL 919T PORTABLE SWITCH

Can be set for periods from 20 minutes to 23 hours, 15 minutes, in 15 minute intervals. Capacity 10 amps, 1100 watts.  $5\frac{1}{2} \times 4\frac{1}{2}$ ". U.I. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 3½ lbs.

78 B 304. List, \$14.95. NET.....9.72

Extra Trippers. For above. Pair, 3 oz.

78 B 309. NET PER PAIR.....45¢

### MODEL 8001 PROGRAM TIMER

Provides any timing combination of intervals which are multiples of 15 minutes. Repeats each 24 hours. 10-amp single-pole switch.  $8\frac{1}{2} \times 5\frac{1}{2} \times 4\frac{1}{2}$ ". U.I. Approved. For 110-120 v., 60 cycle AC. Wt., 4 lbs.

78 B 299. List, \$27.95. NET.....18.17

### MODEL 6100 "TORKMASTER"

Turns "on" and "off" once over a 24-hour period. Minimum setting, 90 minutes. 24-hour dial is calibrated in 15-minute intervals. Switch is single pole; contacts rated 40 amps.  $8\frac{1}{2} \times 5\frac{1}{2} \times 4\frac{1}{2}$ ". U.I. Approved. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 4 lbs.

54 B 464. List, \$11.95. NET.....7.77

### MODEL 4100 "HOURMASTER"

Heavy-duty, SPST time switch. Features combination 1-hour and 24-hour timing operation. Provides up to 24 hourly "on" cycles. Each "on" cycle may be accurately set in 1-min. intervals for durations from 2 to 55 minutes. Can operate every 1, 2, 3, 4, 6, 12, or 24 hours. 30 amps.  $8\frac{1}{2} \times 5\frac{1}{2} \times 4\frac{1}{2}$ ". U.I. Approved. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 9 lbs.

78 B 295. List, \$29.95. NET.....19.47

### MODEL 7100

Similar in appearance to 8001. Automatically turns electrical gear "on and off", once every 24 hours. 45 minutes required between settings. Additional trippers offer up to 12 operations daily. Can be set to skip 1-6 days a week, if desired. SPST switch rated 40 amps. Size,  $8\frac{1}{2} \times 5\frac{1}{2} \times 4\frac{1}{2}$ ". U.I. Approved. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 4 lbs.

78 B 379. List, \$16.95. NET.....11.02

MODEL 7100-W. As above, but dial revolves once a week. Min. setting, 2 hours.

78 B 389. List, \$27.95. NET.....18.17

## TELECHRON CLOCK-TIMER



Electric  
Clock and  
Automatic  
Time Switch

Turns on TV,  
Radio, Hi-Fi  
Music System,  
or Appliance  
At Pre-set  
Time



An excellent value in a famous-name, combination electric clock and automatic time switch. Unit can be used for control of an AC radio, hi-fi music system, air conditioner, coffee-maker, hot plate, etc. Plenty of uses in the shop, Amateur station and laboratory, too—"warms up" equipment at any pre-set time. The built-in SPST switch is rated 15 amps at 125 volts AC.

One of the switch controls permits selecting manual "on" and "off" operation, or automatic turning on of the controlled device at a preselected time within a 12-hour period. Automatic operation can also be employed with a signal alarm sounding 10 minutes after "on cycle" begins. The other switch control permits selecting a definitely timed "on cycle" of up to one hour duration—can be used with radio as a "sleep switch." Gold finish,  $3\frac{1}{2}$ " square;  $1\frac{1}{2}$ " deep. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 2 lbs.

78 B 438. NET (Includes F.E.T.)...5.98



# Clock Timers and Foot Switches

## INTERMATIC CLOCK TIMERS AND CONTROLS



A401-4



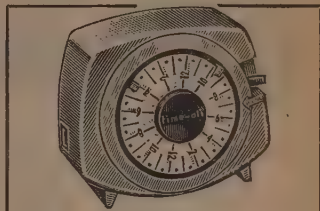
A-501



A301-4



RC-5421-2



A211-4

### MODEL A401-4 "CLOCK-TIMER"

Combination clock and switch. For automatically turning appliances "on" and "off" at preset times. Min. "on" time,  $\frac{1}{4}$  max.,  $\frac{5}{8}$  hours. SPST switch rated mps, 1875 watts. AC receptacle for plugging in appliances. Desert Sand Plaskon case. 6-ft. cord and plug.  $4\frac{1}{2} \times 4\frac{3}{4} \times 2\frac{1}{4}$ ". Approved. For operation from 110-120 cycle AC. Shpg. wt., 2 lbs.

343. List, \$11.95. NET.....7.97

### MODEL A-501 "CLOCK-TIMER"

Combination clock and time switch that controls appliances "on" and "off" at pre-set times. Alarm can be set to sound 10 min. units are turned "on"; 0-60 min. sleep timer turns units "off" as desired. Handles watts. Desert Sand Plaskon case. 6-ft. cord.  $4\frac{1}{2} \times 4\frac{3}{4} \times 2\frac{1}{4}$ ". U.L. Approved. For 20 v., 60 cycle AC. 2 lbs.

267. List, \$11.95. NET.....7.97

### MODEL A301-4 "TIME-MINDER"

Combination electric clock and signal timer. Has any pre-set interval from 1 min. to 24 hrs. Pleasant-toned buzzer sounds at end of interval and continues until manually stopped. No installation—just plug in. Desert Sand Plaskon case. U.L. Approved. 6-ft. cord.  $4\frac{1}{2} \times 4\frac{3}{4} \times 2\frac{1}{4}$ ". For 110-120 v., 60 cycle AC. Shpg. wt., 2 lbs.

342. List, \$8.95. NET.....5.97

### MODEL RC-5421-2 CLOCK-TIMER

- All Controls are Front-Mounted
- Very Attractively Styled

An unmounted combination electric clock and automatic time switch. Use it for controlling radios, TV sets, fans, air conditioners or any other appliance drawing up to 15 amps of current.

Will automatically turn "on" electrical appliances at any pre-set time within a 12-hour period; if desired, a pleasant sounding alarm may be set to go off 10 minutes later. A sleep-switch permits selecting a timed "on cycle" of up to 60 minutes in duration—lets you fall asleep to radio music. Unit can be manually operated too.

All controls are located on the front panel. Highly attractive—has brass bezel, soft white and brown dial, tan knobs. Handles 1875 watts.  $3\frac{1}{2}$ " square; 2" deep. With crystal. Has four  $\frac{3}{8}$ " mtg. holes on  $3\frac{1}{4}$ " ctrs. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 1 lb.

78 B 499. List, \$9.70. NET.....6.31

### MODEL RC-5321-2 CLOCK-TIMER

Not illustrated. An unmounted unit, nearly identical to RC-5421-2 above, but sleep-switch control and on-off-alarm knob are located on front panel, time and alarm-set shaft are at rear. Shpg. wt.,  $1\frac{1}{2}$  lbs.

78 B 498. List, \$9.00. NET.....5.85

- Exceptionally Easy to Operate
- No Special Installation Required

### MODEL A211-4 "TIME-ALL"

Time control switch for office, store or home. Excellent for controlling lights or appliances, etc. Has manual control with automatic reset. Turns lights "on" and "off" at pre-set times—gives house a "lived in" look to discourage prowlers while owners are out or away on a vacation. To revert to control cycle, simply release manual control from "permanent" position.

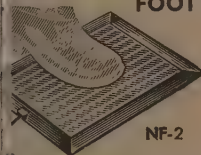
Min. "on" time, 15 min.; max., 23 hrs., 45 min. AC outlet for equipment to be controlled. Switch contacts will handle 15 amps, 1875-watt load. Complete with 6-ft. cord, plug and instructions. Desert Sand Plaskon case.  $5\frac{1}{2} \times 4\frac{3}{4} \times 2\frac{1}{4}$ ". U.L. Approved. For 110-120 volts, 60 cycle AC. Shpg. wt., 2 lbs.

78 B 311. List, \$11.95. NET.....7.97

Model A211-4. Same as above, but designed to handle 7 amps, 875-watt load. Excellent for use in such light-duty applications as the automatic control of hi-fi music systems, home lights, etc. Dove Gray Plaskon case. Shpg. wt., 2 lbs.

78 B 397. List, \$10.95. NET.....7.29

## FOOT SWITCHES



NF-2



T-51-S



1020

### RECOR TYPE NF-2 "NEPTUNE" SWITCH

Operating switch that can be operated by foot or toe. Frees hands for work. SPST contacts are rated 7 amps at 110 v. Waterproof for outdoor use. Durable brown plastic. With 6-ft. cord.  $3\frac{1}{2} \times 6\frac{1}{2}$ ". Shpg. wt., 2 lbs.

292. NET.....5.49

293. Type PSN-2. As above, but plug-socket lets switch plug into AC, controlled unit plugs into socket. NET.....6.27

### LINEMASTER MODEL T-51-S "TREADLITE"

Foot switch for low amperage loads. SPDT momentary-action switch is rated 5 amps at 110-250 v. Rubber tread; skid-resistant base. Black crackle casing  $1\frac{1}{2} \times 2\frac{1}{2} \times \frac{1}{2}$ ". 7 oz.

383. NET.....2.75

384. Model T-51-S. As above, but with 6-ft. cord and series Shpg. wt., 8 oz. NET.....4.00

### ELECTROMATIC MODEL 1020 SWITCH

Action foot switch. Normally-open SPST contacts are rated 15 amps at 115 VAC. With 6-ft. cord. Metal case,  $1\frac{1}{2} \times 3\frac{1}{4} \times \frac{1}{4}$ ". Shpg. wt., 1 lb.

382. NET.....4.95

### RECOR "SWITCHMATS"

Illustrated. Durable, corrugated brown vinyl-plastic mat combination normally-open SPST switch. Sensitive to forces over 5 lbs. Indoor or outdoor use. For 110 v. non-inductive loads up to 10 watts.  $\frac{3}{8}$ " thick, 10-ft. cord.

355. 14x23". Shpg. wt., 14 lbs. NET.....15.20

356. 18x30". Shpg. wt., 24 lbs. NET.....21.60

## "MARK-TIME" TIMERS



2090



78105



74701

### MODEL 2090 UTILITY TIMER

Compact, tip-resistant manual unit that times countless household activities up to 1 hour. Easy-to-read dial is calibrated in minutes. White finish.  $3\frac{3}{8} \times 3\frac{1}{2} \times \frac{1}{4}$ ". Shpg. wt.,  $\frac{1}{4}$  lb.

78 B 262. List, \$3.95. NET.....2.97

### 78105 PROFESSIONAL TIME SWITCH

Turns off current at any pre-set time up to 1 hr. 10 amps. 6-ft. cord.  $3\frac{3}{8} \times 3\frac{1}{2} \times \frac{1}{4}$ ". For 110-125, 60 cycle AC. 1 lb.

78 B 263. List, \$7.95. NET.....5.95

MODEL 78174 PHOTO TIME SWITCH. As above, but for periods to 60 seconds. Adjustable stop for repeat settings.

78 B 264. List, \$8.95. NET.....6.72

### STANDARD BUILT-IN TIME SWITCHES

SPDT switch easily set for "off-type" or "on-type" use. Simple installation. With hdwe, 28 amps, 125-240 VAC. U.L. Approved.

| Stock No. | Type  | Timing Range | Dia. x Depth                         | Lbs. | NET  |
|-----------|-------|--------------|--------------------------------------|------|------|
| 78 B 259  | 74701 | 0 to 15 min. | $2\frac{1}{2} \times 1\frac{1}{4}$ " | 1    | 5.96 |
| 78 B 261  | 74702 | 0 to 30 min. |                                      | 1    | 5.96 |
| 78 B 268  | 74703 | 0 to 60 min. |                                      | 1    | 5.96 |

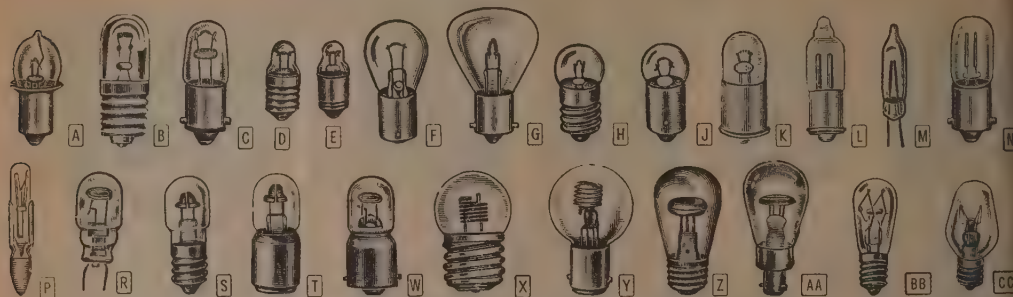
### TEC-4 AUTOMATIC TIMER

Functional and economical—serves as both extension cord and time switch. Insert up to 3 devices into outlets and set knob for up to 4-hr. "on" cycle. 10 amps. Cream and gold. 1 lb.

78 B 291. NET.....5.21



# General Electric Lamps—Sockets



Abbreviations under **Base** mean: S, C, F—single contact, flanged; S, C, Bay—single contact, bayonet; D, C, Bay—double contact, bayonet; Cand—Candelabra. Under **Bulb Style**: G—globe; T—

tubular; B—lemon shape; TL—Lens end, tubular (pre-focus type); FE—flat end; RP—reflector, pear shape; S—as in Fig. F. Types 1847, 1891 are for Ford and Chevrolet automobiles.

## GENERAL-PURPOSE MINIATURE LAMPS

Top-quality, precision-manufactured indicator, telephone, aircraft, flashlight and pilot lamps. All miniature, except: \*Midget flanged type; type-focused candelabra. †Switchboard slide-type base. Av. shpg. wt., 1 lamp, 2 oz.; box of 10, 4 oz.

| Stock No. | Mfr's Type | Fig. | Volts | Amps    | Base        | Bulb Style | NET EACH |       |
|-----------|------------|------|-------|---------|-------------|------------|----------|-------|
|           |            |      |       |         |             |            | 1-9      | 10-99 |
| 52 E 3344 | PR-2       | A    | 2.4   | 0.50    | S, C, F     | B-3½       | .20      | .13   |
| 52 E 3345 | PR-3       | A    | 3.6   | 0.50    | S, C, F     | B-3½       | .20      | .13   |
| 52 E 3337 | PR-4       | A    | 2.3   | 0.27    | S, C, F     | B-3½       | .20      | .13   |
| 52 E 3303 | PR-6       | A    | 2.47  | .3      | S, C, Mid.* | B-3½       | .20      | .13   |
| 52 E 3338 | PR-9       | A    | 2.7   | 0.15    | S, C, F     | B-3½       | .25      | .16   |
| 52 E 387  | PR-12      | A    | 5.98  | 0.50    | S, C, F     | B-3½       | .25      | .13   |
| 52 E 314  | 13         | H    | 3.7   | 0.30    | Min. 2-pin  | G-3½       | .25      | .16   |
| 52 E 300  | 14         | H    | 2.5   | 0.30    | Screw       | G-3½       | .17      | .11   |
| 52 E 304  | 24         | P    | 2.4   | .035    | Tel. Slides | T-2        | .65      | .43   |
| 52 E 303  | 27         | H    | 4.9   | 0.30    | Screw       | G-4½       | .17      | .11   |
| 52 E 302  | 31         | H    | 6.3   | 0.30    | Screw       | G-4½       | .20      | .13   |
| 52 E 305  | 39         | C    | 6.3   | 0.36    | Bayonet     | T-3½       | .30      | .20   |
| 52 E 305  | 40         | B    | 6.8   | 0.15    | Screw       | T-3½       | .15      | .10   |
| 52 E 306  | 41         | B    | 2.5   | 0.50    | Screw       | T-3½       | .15      | .10   |
| 52 E 307  | 42         | B    | 3.2   | 0.35    | Screw       | T-3½       | .20      | .13   |
| 52 E 308  | 43         | C    | 2.5   | 0.50    | Bayonet     | T-3½       | .15      | .10   |
| 52 E 309  | 44         | C    | 6.8   | 0.25    | Bayonet     | T-3½       | .15      | .10   |
| 52 E 310  | 45         | C    | 3.2   | 0.35    | Bayonet     | T-3½       | .15      | .10   |
| 52 E 311  | 46         | B    | 6.8   | 0.25    | Screw       | T-3½       | .15      | .10   |
| 52 E 312  | 47         | C    | 6.8   | 0.15    | Bayonet     | T-3½       | .15      | .10   |
| 52 E 313  | 48         | B    | 2.0   | 0.06    | Screw       | T-3½       | .15      | .10   |
| 52 E 314  | 49         | C    | 4.8   | .035    | Tel. Slides | T-2        | .70      | .46   |
| 52 E 315  | 50         | H    | 6.8   | 1 c. p. | S, C, Bay   | G-3½       | .15      | .10   |
| 52 E 316  | 51         | J    | 6-8   | 1 c. p. | Bayonet     | G-3½       | .15      | .10   |
| 52 E 317  | 52         | J    | 14.4  | 0.12    | Bayonet     | G-3½       | .15      | .10   |
| 52 E 318  | 53         | J    | 6-8   | 2 c. p. | Bayonet     | G-4½       | .15      | .10   |
| 52 E 319  | 54         | J    | 12.6  | 2 c. p. | Bayonet     | G-4½       | .15      | .10   |
| 52 E 320  | 55         | J    | 13.5  | 2 c. p. | Bayonet     | G-4½       | .15      | .10   |
| 52 E 321  | 56         | J    | 6-8   | 1 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 322  | 57         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 323  | 58         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 324  | 59         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 325  | 60         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 326  | 61         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 327  | 62         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 328  | 63         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 329  | 64         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 330  | 65         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 331  | 66         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 332  | 67         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 333  | 68         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 334  | 69         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 335  | 70         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 336  | 71         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 337  | 72         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 338  | 73         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 339  | 74         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 340  | 75         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 341  | 76         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 342  | 77         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 343  | 78         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 344  | 79         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 345  | 80         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 346  | 81         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 347  | 82         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 348  | 83         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 349  | 84         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 350  | 85         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 351  | 86         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 352  | 87         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 353  | 88         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 354  | 89         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 355  | 90         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 356  | 91         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 357  | 92         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 358  | 93         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 359  | 94         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 360  | 95         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 361  | 96         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 362  | 97         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 363  | 98         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 364  | 99         | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |
| 52 E 365  | 100        | J    | 13.5  | 2 c. p. | S, C, Bay   | G-3½       | .20      | .13   |

## NEON GLOW LAMPS

For 105-600 v. except †210-600 v. †DC only. Sk. under **Base** means skirted. Screw types have series resistor in base—for 105-125 v.; others require external resistor. \*AC starting voltage. DC starting v., 40% higher. †High brightness. Av. shpg. wt., 1 lamp, 3 oz.; box of 10, 5 oz.

| Stock No. | Mfr's Type | Fig. | Watts | *AC Volts | Bulb Style | Base                | NET EACH |       |
|-----------|------------|------|-------|-----------|------------|---------------------|----------|-------|
|           |            |      |       |           |            |                     | 1-49     | 50-Up |
| 52 E 370  | NE-2       | M    | 1/17  | 65        | T-2        | Wire Term.          | .10      | .08   |
| 52 E 326  | NE-2D      | L    | 1/15  | 65        | T-2        | S.C. Mid. Flange    | .82      | .66   |
| 52 E 396  | NE-2H      | M    | 1/5   | 105       | T-2        | Wire Term.          | .12      | .12   |
| 52 E 329  | NE-2J      | L    | 1/5   | 105       | T-2        | S.C. Mid. Flange    | .82      | .66   |
| 52 E 374  | NE-7       | R    | ¼     | 105       | T-4½       | Wire Term.          | .73      | .58   |
| 52 E 326  | NE-16      | T    | ¼     | 65        | T-4½       | D.C. Bay. Cand.     | .63      | .50   |
| 52 E 327  | NE-17      | T    | ¼     | 65        | T-4½       | D.C. Bay. Cand.     | .90      | .72   |
| 52 E 322  | NE-21      | W    | ¼     | 65        | T-4½       | S.C. Bay. Cand.     | .95      | .76   |
| 52 E 301  | NE-30      | X    | 1     | 60        | G-10       | Edison              | 1.20     | .96   |
| 52 E 314  | NE-32      | Y    | 1     | 60        | G-10       | D.C. Bay. Cand.     | 1.20     | .96   |
| 52 E 303  | NE-34      | Z    | 2     | 60        | S-14       | Edison              | 1.85     | 1.48  |
| 52 E 306  | NE-40      | Z    | 3     | 60        | S-14       | Edison              | 2.70     | 2.16  |
| 52 E 316  | NE-42      | AA   | 3     | 60        | S-14       | Sk. D.C. Bay. Cand. | 2.65     | 2.12  |
| 52 E 307  | NE-45      | T    | ¼     | 65        | T-4½       | Cand. Screw         | .85      | .68   |
| 52 E 312  | NE-48      | S    | ¼     | 65        | T-4½       | D.C. Bay. Cand.     | .70      | .56   |
| 52 E 373  | NE-51      | N    | 1/25  | 65        | T-3¼       | S.C. Bay. Min.      | .21      | .17   |
| 52 E 395  | NE-SIH     | N    | 1/7   | .....     | T-3¼       | S.C. Bay. Min.      | .23      | .18   |
| 52 E 360  | NE-56      | X    | 1     | 60        | G-10       | Edison              | 1.25     | 1.00  |
| 52 E 361  | NE-57      | S    | ¼     | 55        | T-4½       | Cand. Screw         | .99      | .79   |
| 52 E 362  | NE-58      | S    | ¼     | 65        | T-4½       | Cand. Screw         | .95      | .76   |
| 52 E 377  | NE-77      | M    | ¼     | 140       | T-2        | 3-Wire Term.        | .55      | .44   |
| 52 E 060  | NE-96      | M    | ¼     | 140       | T-2        | 2-Wire Term.        | .20      | .16   |

## ARGON GLOW LAMPS

Pale blue-violet light—near-ultraviolet radiation. Clear glass. \*Av. life, 1000 hours; fav. life, 3000 hr. Av. wt., 1 lamp, 3 oz.; box of 10, 5 oz.

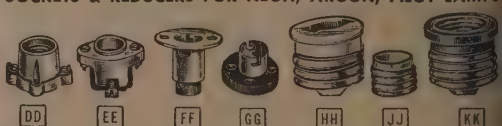
| Stock No. | Type  | Fig. | Watts | Base    | 1-49        | EA, 50-Up, EA. |
|-----------|-------|------|-------|---------|-------------|----------------|
| 52 E 811  | *AR-3 | S    | ¼     | 80 S-14 | Cand. Screw | .85            |
| 52 E 810  | *AR-1 | Z    | 2     | 65 T-4½ | Edison      | 1.90           |

## AC-DC LAMPS

Rated 1500 hours, average use. Clear glass except †white glass. Ideal behind small panel openings, as indicator lamps, etc. For 120 volts, except \*230 v. †Herzog tubular lamp—others, G.E. Av. shpg. wt., 4 oz.

| Stock No. | Type   | Fig. | Watts | Base            | 1-49 | EA, 50-Up, EA. |
|-----------|--------|------|-------|-----------------|------|----------------|
| 52 E 349  | 6S6    | BB   | 6     | Cand. Screw     | .22  | .18            |
| 52 E 352  | 6S6DC  | BB   | 6     | D.C. Bay. Cand. | .33  | .26            |
| 52 E 354  | 8S6    | BB   | 3     | Cand. Screw     | .39  | .31            |
| 52 E 353  | †0S6B  | BB   | 10    | Cand. Screw     | .52  | .42            |
| 52 E 355  | 7C7C   | CC   | 7     | Cand. Screw     | .22  | .18            |
| 52 E 356  | 7C7W   | CC   | 7     | Cand. Screw     | .22  | .18            |
| 52 E 351  | 10C7DC | CC   | 10    | D.C. Bay. Cand. | .29  | .23            |
| 52 E 350  | †      | ...  | 4     | Cand. Screw     | .47  | .42            |

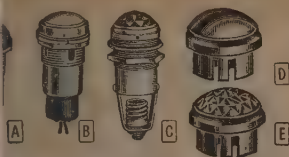
## SOCKETS & REDUCERS FOR NEON, ARGON, PILOT LAMPS



Reducer fits into socket to convert to most commonly used types of bulb bases. \*Socket with hard rubber insert in metal shell. Av. shpg. wt. for sockets, 3 oz. Av. shpg. wt. of reducers, 2 oz.

| Stock No. | Fig. | Description                   | 1-49 | EA, 50-Up, EA. |
|-----------|------|-------------------------------|------|----------------|
| 52 E 850  | DD   | Edison socket                 | .13  | .12            |
| 52 E 858  | DD   | Miniature screw socket        | .15  | .15            |
| 52 E 852  | EE   | Candelabra screw socket       | .45  | .41            |
| 52 E 855  | DD   | Candelabra screw socket       | .15  | .13            |
| 52 E 853  | FF   | D.C. bay. candelabra socket   | .36  | .33            |
| 52 E 856  | GG   | D.C. bay. candelabra socket   | .87  | .79            |
| 52 E 857  | GG   | S.C. bay. candelabra socket   | .81  | .72            |
| 52 E 606  | HH   | Edison-to-Cand. reducer       | .18  | .18            |
| 52 E 634  | JJ   | Candelabra-to-Min. reducer    | .18  | .15            |
| 52 E 639  | JJ   | Intermediate-to-Cand. reducer | .09  | .07            |
| 52 E 638  | KK   | Edison-to-Inter. reducer      | .16  | .14            |





## 1/2-INCH ENCLOSED ASSEMBLIES

Series 313101. 115-volt, enclosed pilot assembly. Black bakelite and brass. Faceted jewel in chrome-plated holder. Brass screw socket. 1" mounting hole. Recommended for neon; all others for incandescent. For type S6 bulbs. U.L. v. ed. Shpg. wt., 4 oz.

| k   | Mfr's Type | Jewel Color | 1-9, EACH | 10-Up, EACH |
|-----|------------|-------------|-----------|-------------|
| 160 | 431        | Red         |           |             |
| 161 | 432        | Green*      |           |             |
| 162 | 433        | Amber       |           |             |
| 111 | 437        | Clear       | 1.22      | 1.10        |
| 111 | 434        | Blue*       |           |             |
| 112 | 435        | White       |           |             |

## 55MMOLIES WITH WIRE LEADS

Series 312901. As above, except with 6" wire leads instead of solder lugs. Has friction, chrome-plated cap. 1" mtg. hole. U.L. v. ed. Less S6 candela lamp (see G.E. listings). Shpg. wt., 4 oz.

| k   | Mfr's Type | Jewel Color | 1-9, EACH | 10-Up, EACH |
|-----|------------|-------------|-----------|-------------|
| 185 | 111        | Red         |           |             |
| 186 | 112        | Green       |           |             |
| 187 | 113        | Amber       | 1.52      | 1.37        |
| 188 | 117        | Clear       |           |             |

## ONE-INCH OPEN ASSEMBLIES

Series 75. 115-volt open-type pilot lamp assembly with faceted jewel in chrome-brass holder. Candela screw socket. Brass construction. Friction-fit chrome-plated cap. 1" mounting hole. Less S6 lamp (see E. bulb listings). Shpg. wt., 5 oz.

| k   | Mfr's Type | Jewel Color | 1-9, EACH | 10-Up, EACH |
|-----|------------|-------------|-----------|-------------|
| 500 | C-431      | Red         |           |             |
| 501 | C-432      | Green       | 70c       | 63c         |
| 502 | C-433      | Amber       |           |             |

## REPLACEMENT JEWEL CAPS

Series 312901 Indicator Assemblies. 12.

| No. | Type   | Color | Stock No. | Type   | Color |
|-----|--------|-------|-----------|--------|-------|
| 175 | 31-111 | Red   | 52 E 576  | 31-113 | Amber |
| 176 | 31-112 | Green | 52 E 578  | 31-117 | Clear |

ACH...42c 10-Up, EACH...38c

Series 75, 910, and 313101 Assemblies. 2 oz.

| No. | Type   | Color | Stock No. | Type   | Color |
|-----|--------|-------|-----------|--------|-------|
| 125 | 31-431 | Red   | 52 E 527  | 31-433 | Amber |
| 126 | 31-432 | Green | 52 E 588  | 31-437 | Clear |

ACH...42c 10-Up, EACH...38c

## TAKE NEON INDICATING LIGHTS



Type 110 "Fluolite." Neon indicating light, enclosed in translucent plastic base. 1/2" AC or DC. Size. 1/2"x1/2"x1/2". 1 1/2" mtg. centers. Shpg. wt., 2 oz. 061. 10-Up, EA...38c 1-9, EA...40c

Type 105 "Post-lite." Panel light for 65-30 v. AC, or 90-130 v. DC. Length, 2 1/2". 1/2" mtg. hole. Complete with mounting. Shpg. wt., 2 oz. 062. 10-Up, EA...54c 1-9, EA...58c

## TUNGAR BULBS

and argon-mercury tungar bulbs for use in indication of AC to a battery charger, power supplies, motor projectors, or operation of magnetics, motor, etc. Series type used in projectors. Av. wt., 1 1/2 lbs.

| No. | Type   | Fig. | Amps | NET   |
|-----|--------|------|------|-------|
| 900 | 12X825 | S    | 2    | 4.41  |
| 901 | 206501 | S    | 2    | 4.41  |
| 906 | 20X672 | S    | 5    | 5.52  |
| 903 | 189048 | R    | 6    | 4.77  |
| 904 | 189049 | R    | 6    | 4.77  |
| 905 | 217283 | R    | 15   | 9.19  |
| 907 | 16X897 | ..   | 2    | 12.13 |
| 908 | 45X674 | ..   | 6    | 14.70 |

## HALF INCH ENCLOSED ASSEMBLIES

Series 81410X. Rugged, aviation-type socket shell with smooth jewel in 1/2" holder. Takes T-3/4 miniature bayonet lamp. Size, 2 1/4" long, requires 1/4" mounting hole. Fits panels up to 1/4" thick. Black nickel finish. U.L. Approved. Less T-3/4 miniature lamp; see G.E. bulb listings. Av. shpg. wt., 3 oz.

| Stock No. | Mfr's Type | Cap. Color | 1-9, EACH | 10-Up, EACH |
|-----------|------------|------------|-----------|-------------|
| 52 E 530  | 111        | Red        |           |             |
| 52 E 531  | 112        | Green      |           |             |
| 52 E 532  | 113        | Amber      | 1.19      | 1.07        |
| 52 E 533  | 113        | Amber      |           |             |

## Replacement Jewel Caps for Above. Wt. 2 oz.

| Stock No. | Mfr's Type | Jewel Color | 1-9, EACH | 10-Up, EACH |
|-----------|------------|-------------|-----------|-------------|
| 52 E 535  | 81-111     | Red         |           |             |
| 52 E 536  | 81-112     | Green       |           |             |
| 52 E 537  | 81-133     | White       | 16c       | 14c         |
| 52 E 538  | 81-113     | Amber       |           |             |

## HALF-INCH OPEN ASSEMBLIES

Series 857B. Requires an 1/4" mtg. hole. 1/2" lens. 2 1/2" long. Tinned solder terminals. For panels up to 1/4" thick. 1/4" mounting washer. Less lamp. Uses type 44, 47 or 51 bulbs; see G.E. bulb listings. Shpg. wt., 4 oz.

| 52 E 545 | 431 | Red   |     |     |
|----------|-----|-------|-----|-----|
| 52 E 546 | 432 | Green |     |     |
| 52 E 547 | 433 | Amber | 44c | 40c |
| 52 E 548 | 434 | Blue  |     |     |



## PILOT LIGHT SOCKETS

Have terminal lugs of tinned brass to facilitate rapid soldering. Coil spring construction on all bayonet type sockets. Supplied complete with insulating washers. \*As illustrated, but bayonet type. See bulb listing of screw lamps (for Series 500), bayonet lamps (for series 700), and candela lamps (for Series 600). Av. shpg. wt. per pkg. of 5, 6 oz. 5 per package.

## MINIATURE SCREW

| Stock No. | Mfr's Type | Fig. | Per Pkg. | 5 Pkgs. or More, Per Pkg. |
|-----------|------------|------|----------|---------------------------|
| 52 E 400  | 501        | T    | 35c      | 31c                       |
| 52 E 401  | 507        | Y    | 32c      | 29c                       |
| 52 E 402  | 504        | W    | 35c      | 31c                       |
| 52 E 410  | 505        | X    | 35c      | 31c                       |
| 52 E 411  | 508        | X    | 35c      | 31c                       |

## CANDELABRA SCREW—115 VOLTS

| 52 E 407 | 601 | T |     |     |
|----------|-----|---|-----|-----|
| 52 E 408 | 604 | W | 45c | 41c |
| 52 E 409 | 605 | Z |     |     |
| 52 E 412 | 608 | X |     |     |

## MINIATURE BAYONET

| 52 E 404 | 701 | T  | 39c | 35c |
|----------|-----|----|-----|-----|
| 52 E 405 | 702 | Y  | 39c | 35c |
| 52 E 406 | 703 | *W | 39c | 35c |
| 52 E 407 | 705 | *Z | 39c | 35c |
| 52 E 419 | 708 | X  | 39c | 35c |

## PILOT LIGHT LENS CAPS

All-purpose faceted lens caps. In three sizes—1/4", 1/2" and 3/4" diameters; red, green and amber. Holders are nickel-plated brass. Mount in panels up to 3/8" thick. Require 1/4", 1/2" and 3/4" mounting holes, respectively. Av. shpg. wt., 2 oz.

| Size | Red      | Green    | Amber    | 1-9, EA. | 10-Up, EA. |
|------|----------|----------|----------|----------|------------|
| 1/4" | 52 E 440 | 52 E 445 | 52 E 446 | 24c      | 22c        |
| 1/2" | 52 E 445 | 52 E 491 | 52 E 492 | 11c      | 10c        |
| 3/4" | 52 E 447 | 52 E 448 | 52 E 449 | 13c      | 12c        |

## PILOT BULB REMOVER

Designed to expedite installation or removal of miniature and standard lamps. High-grade rubber. Wt., 2 oz. 52 E 550, NET...26c



## NEON INDICATOR LIGHTS

Series 95408X and Series 95408XH. Enclosed indicator lights. Series 95408X have built-in 50,000-ohm, 1/2 watt resistor for NE-51 neon lamps in 105-125 v. AC-DC circuits. Series 95408XH (\*) have built-in resistor of 18,000 ohms for use with NE-51H neon glow lamp in 105-125 v. AC. 2 1/4" long, 1/4" hole. Meet MIL-L-3661 and U.L. requirements. Less lamp. With mounting nut. Av. shpg. wt., 3 oz.

| Stock No. | Mfr's Type | Stock No. | Mfr's Type | Cap. Color |
|-----------|------------|-----------|------------|------------|
| 52 E 504  | 931        | 53 E 142  | 931H*      | Red        |
| 52 E 505  | 933        | 53 E 143  | 933H*      | Amber      |
| 52 E 506  | 935        | 53 E 144  | 935H*      | White      |
| 52 E 507  | 937        | 53 E 145  | 937H*      | Clear      |

1-9, NET EACH...1.19  
10-Up, EACH...1.07

## NEON PANEL ASSEMBLIES

Series 952208. Enclosed neon pilot light assemblies. Have built-in 50,000 ohm resistor for NE-51 in 105-125 v. AC-DC circuits; except \* with 18,000 ohm resistor for NE-51H "high brightness" lamp for use with 105-125 v. AC. 2 1/4" long, 1/4" mtg. hole. Less lamp (see G.E. bulb listings). With mounting nut. Av. shpg. wt., 3 oz.

| Stock No. | Mfr's Type | Stock No. | Mfr's Type | Cap. Color |
|-----------|------------|-----------|------------|------------|
| 52 E 581  | 931        | 53 E 146  | 931H*      | Red        |
| 52 E 582  | 933        | 53 E 147  | 933H*      | Amber      |
| 52 E 583  | 935        | 53 E 148  | 935H*      | White      |
| 52 E 584  | 937        | 53 E 149  | 937H*      | Clear      |

10-Up, EA...61c 1-9, NET EACH...68c

## Replacement Plastic Caps For Above. 2 oz.

| Stock No. | Mfr's Type | Color | 1-9, EACH | 10-Up, EACH |
|-----------|------------|-------|-----------|-------------|
| 52 E 565  | 95-931     | Red   |           |             |
| 52 E 566  | 95-933     | Amber | 19c       | 17c         |
| 52 E 567  | 95-935     | White |           |             |
| 52 E 568  | 95-937     | Clear |           |             |

## MINIATURE AND CANDELABRA SCREW OPEN TYPE ASSEMBLIES

Series 510, 610 and 710. Open-type indicator light assemblies. Require 1/4" mounting hole. Solder lug terminals. Series 510 uses T-3/4 screw-base lamp; 610 uses T-3/4 miniature screw-base lamp; Series 710 uses T-3/4 bayonet type. Less lamp. Av. shpg. wt., 2 oz.

| Series No. | Stock No. |          |          | NET EACH |
|------------|-----------|----------|----------|----------|
|            | Red       | Green    | Amber    |          |
| 510        | 52 E 475  | 52 E 476 | 52 E 477 | 21c      |
| 610        | 52 E 540  | 52 E 541 | 52 E 542 |          |
| 710        | 52 E 480  | 52 E 481 | 52 E 482 |          |

Series 810. Screw and Bayonet Types. With faceted jewel. Require 1/4" mounting hole. With solder lug terminals. Use miniature bulbs. 810M takes T-3/4 miniature bulb with screw base; 810 takes T-3/4 miniature screw base bulb. Less lamp; see G.E. bulb listings. Av. shpg. wt., 2 oz.

| Series<br>No. | Stock No. |          |          | NET<br>EACH |
|---------------|-----------|----------|----------|-------------|
|               | Red       | Green    | Amber    |             |
| 810M          | 52 E 450  | 52 E 451 | 52 E 452 | 32c         |
| 810B          | 52 E 453  | 52 E 454 | 52 E 455 |             |

Series 910 Screw Types. Open miniature and candela screw types. Chrome-plated brass jewel holders and faceted jewels. 1 1/2" long; require 1" mounting hole. Miniature screw types take T-3/4 bulb. Candela screw types use S6 bulb. Less bulb. Shpg. wt., 3 oz.

| Color | Min. Screw | Gand. Screw | 1-9, EACH | 10-Up, EACH |
|-------|------------|-------------|-----------|-------------|
| Red   | 52 E 430   | 52 E 440    |           |             |
| Green | 52 E 431   | 52 E 441    | 71c       | 64c         |
| Amber | 52 E 432   | 52 E 442    |           |             |

Series 910 Miniature Bayonet Type. Open assemblies with chrome-plated brass jewel holders and faceted jewels. 1 1/2" long; require 1" mounting hole. Take T-3/4 bayonet-base bulb. Less bulb. Shpg. wt., 3 oz.

| Stock No. | Color | 1-9, EACH | 10-Up, EACH |
|-----------|-------|-----------|-------------|
| 52 E 420  | Red   |           |             |
| 52 E 421  | Green | 71c       | 64c         |
| 52 E 422  | Amber |           |             |

A diagram showing a cross-section of a tube with a coiled spring inside. The spring is positioned in the center of the tube. The diagram is labeled with the letter 'C' in a box below it.

## TYPE 4AG SLO-BLO FUSE

**C Series 413000.** Meet all craft vibration requirements. Open in 1 hour at 135% overload; in 60 seconds on 200%; immediately on short circuit. Size, 1 1/4 x 3/4". 5 oz. 5 fuses per package.

| Amps   | Max. Volts | Stock No. | Per Pkg. | 20 Pkgs. or more, Per Pkg. | Amps                             | Max. Volts | Stock No. | Per Pkg. | 20 Pkgs. or more, Per Pkg. |
|--------|------------|-----------|----------|----------------------------|----------------------------------|------------|-----------|----------|----------------------------|
| 2/10   | 250        | 52 B 994  |          |                            | 3                                | 250        | 52 B 989  |          |                            |
| 1/4    | 250        | 52 B 985  |          |                            | 3 <sup>1</sup> / <sub>2</sub> 10 | 52 B 947   |           |          |                            |
| 3/10   | 250        | 52 B 995  | 1.09     | .93                        | 5                                | 32         | 52 B 940  | .82      | .70                        |
| 1/2    | 250        | 52 B 986  |          |                            | 6 1/4                            | 32         | 52 B 949  |          |                            |
| 6/10   | 250        | 52 B 997  |          |                            | 8                                | 32         | 52 B 960  |          |                            |
| 2 3/4  | 250        | 52 B 983  |          |                            | 12                               | 32         | 52 B 991  |          |                            |
| 1      | 250        | 52 B 987  | 1.09     | .93                        | 15                               | 32         | 52 B 961  | .82      | .70                        |
| 1 1/4  | 250        | 52 B 989  |          |                            | 20                               | 32         | 52 B 962  |          |                            |
| 1-6/10 | 250        | 52 B 945  |          |                            | 25                               | 32         | 52 B 963  |          |                            |
| 2      | 250        | 52 B 988  | 1.09     | .93                        | 30                               | 32         | 52 B 964  | .82      | .70                        |

## TYPE 3AB FUSES

**B** Series 314000, Steatite, powder-filled; for high-current use. Medium time lag.  $1\frac{1}{4} \times \frac{1}{4}$ ". Types thru 15 amps, U.L. Appv'd, 2 oz. 5 per pkg.

| Amps | Max. Volts. | Stock No. | Per Pkg. | 20 Pkgs. or more, Per Pkg. | Amps | Max. Volts. | Stock No. | Per Pkg. | 20 Pkgs. or more, Per Pkg. |
|------|-------------|-----------|----------|----------------------------|------|-------------|-----------|----------|----------------------------|
| 1    | 250         | 52 B 678  | 53¢      | 45¢                        | 10   | 250         | 52 B 244  | 50¢      | 43¢                        |
| 2    | 250         | 52 B 679  | 53¢      | 45¢                        | 12   | 250         | 52 B 245  | 53¢      | 45¢                        |
| 3    | 250         | 52 B 680  | 53¢      | 45¢                        | 15   | 250         | 52 B 246  | 53¢      | 45¢                        |
| 5    | 250         | 52 B 681  | 50¢      | 43¢                        | 20   | 250         | 52 B 247  | 53¢      | 45¢                        |
| 8    | 250         | 52 B 241  | 50¢      | 43¢                        | 30   | 125         | 52 B 682  | 52¢      | 53¢                        |

## TYPE 8AG FUSES

**Series 361000 Fast Action Instrument Fuse.** All rated 250 max. volts except \* which is 32. 1x1/4". 2 oz. per pkg. 5 fuses per package.

| Amps  | Blow Point, Ma | Stock No. | Per Pkg. | 20 Pkgs. or more, Per Pkg. | Amps | Blow Point, Ma | Stock No. | Per Pkg. | 20 Pkgs. or more, Per Pkg. |
|-------|----------------|-----------|----------|----------------------------|------|----------------|-----------|----------|----------------------------|
| 1/500 | 3              | 52 B 199  | 4.09     | 3.48                       | 1/2  | 520            | 52 B 208  | .38      | .33                        |
| 1/200 | 8              | 52 B 200  | 1.71     | 1.45                       | 3/4  | 800            | 52 B 209  | .38      | .33                        |
| 1/100 | 16             | 52 B 201  | 1.53     | 1.30                       | 1    | 1300           | 52 B 210  | .29      | .25                        |
| 1/32  | 40             | 52 B 202  | 1.32     | 1.13                       | 2    | 2600           | 52 B 212  | .29      | .25                        |
| 1/16  | 85             | 52 B 203  | .82      | .70                        | 3    | 3900           | 52 B 213  |          |                            |
| 1/8   | 170            | 52 B 204  | .62      | .53                        | 4    | 5200           | 52 B 214  | .29      | .25                        |
| 1/4   | 380            | 52 B 206  | .38      | .33                        | 5*   | 6000           |           |          |                            |

TV fuses for 346000 series bayonet-lock fuse holders only. Series 333000 are Slo-Blo; 332000 are regular. Shpg. wt., 2 oz. **5 fuses per pkg.**

### TYPE 3AG PIGTAIL FUSES

**D Series 318000.** Fast-acting type. All have 1½" tinned copper leads. Size, 1¼x¼". Shpg. wt. per pkg., 2 oz. **5 fuses per package.**

| Stock No. | Amps          | Volts | Per Pkg. | 20 Pkgs. or more, Per Pkg. |
|-----------|---------------|-------|----------|----------------------------|
| 52 B 215  | $\frac{1}{4}$ | 250   | .62      | .53                        |
| 52 B 279  | $\frac{1}{2}$ | 250   | .62      | .53                        |
| 52 B 928  | 1             | 250   | .47      | .40                        |

## LITTELFUSE FUSE MOUNTINGS

|                                                                                   |                                                                                   |                                                                                                                             |           |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------|
|  |  | <b>E</b> Phosphor Bronze Clips. For use with SFE, 3AG, 8AG, 3AB fuse types. Shpg. wt. per pkg., 5 oz. 10 clips per package. |           |
| <b>E</b>                                                                          | <b>F</b>                                                                          | <b>52 B 685. NET PER PKG.</b>                                                                                               | <b>17</b> |
|                                                                                   |                                                                                   | <b>10 Pkgs. and Up, PER PKG.</b>                                                                                            | <b>14</b> |

## FUSEMASTER RACK ASSORTMENT

● Includes 20 Boxes—100 Most Popular Fuses

**Type 094047.** 100 assorted fuses in a clear plastic rack. Ideal for service shops; inventory control backboard permits taking fuse inventory at a glance. Includes 3AG types: 10- $\frac{1}{4}$ -amp, 10- $\frac{1}{2}$ -amp, 5-amp, 2-amp, 10- $\frac{1}{4}$ -amp SB, 5- $\frac{1}{2}$ -amp SB, 5-amp SB, 2-amp SB, 3-amp SB, 10- $\frac{1}{2}$ -amp SB; also "N" types: 5- $\frac{1}{4}$ -amp, 5- $\frac{1}{2}$ -amp, 10- $\frac{1}{2}$ -amp, 10- $\frac{1}{4}$ -amp, 11x $\frac{1}{2}$ x $\frac{1}{2}$ " 2 lbs.

**52 B 943 NET** **11.93**

## LITTELFUSE FUSE CADDIES

**Type 094041.** Designed to fit in tube caddy. Contains 15 boxes (5 fuses per box) of Types C and N limited-current fuses marked by \* in table below. Rated 250 v., except 7 amp, 125 v. Clear plastic case has 3 spare compartments. Size,  $1\frac{1}{2} \times 3 \times 4\frac{1}{4}$ ". Shpg. wt., 2 lbs.

**Type 094037.** Fuse caddy as above but contains 14 boxes of fuses (types indicated by symbol†). Also includes emergency kit with various radio fuses in popular values. Shpg. wt., 2 lbs.

| Type       | Amps | Type         | Amps | Type           | Amps |
|------------|------|--------------|------|----------------|------|
| (Regular)  | .3*  | N (Silo-Bio) | .6*  | 3AG            | .2   |
| (Regular)  | .5*  | N (Silo-Bio) | .7*  | 3AG            | .2   |
| (Regular)  | .75* | N (Silo-Bio) | 1†   | 3AG            | .5†  |
| (Regular)  | 2†   | N (Silo-Bio) | 1.6* | 3AG (Silo-Bio) | .25† |
| (Regular)  | 2.5† | N (Silo-Bio) | 1.6* | 3AG (Silo-Bio) | .25† |
| (Regular)  | .7*  | N (Silo-Bio) | 2*   | 8AG-U.L.       | .25† |
| (Silo-Bio) | .25† | 3AG          | .25† | 8AG-U.L.       | .5†  |
| (Silo-Bio) | .3*  | 3AG          |      |                |      |
| (Silo-Bio) | .5*  | 3AG          | 1†   |                |      |

## LITTELFUSE MOUNTINGS—EXTRACTOR POSTS

G H J K L M N P Q

Fuse holders for every application. \*With fuse. Av. shipping wt. 3 oz.

| Stock No. | Part No. | Type | Fig. | For Fuses:   | Description                    | EACH |
|-----------|----------|------|------|--------------|--------------------------------|------|
| 41 B 720  | 341001   | P    | 1    | 3AG, 3AB     | Panel mount, screw slot        | 41¢  |
| 41 B 721  | 371001   | P    | 1    | 8AG          | Panel mount, screw slot        | 41¢  |
| 41 B 729  | 422001   | L    | 4    | 3AG, 3AB     | Panel mount, thumb knob        | 81¢  |
| 41 B 727  | 372001   | L    | 1    | 3AG, 3AB     | Panel mount, thumb knob        | 41¢  |
| 41 B 728  | 372001   | L    | 1    | 8AG          | Panel mount, thumb knob        | 41¢  |
| 52 B 292  | 357001   | J    | 3    | 3AG, 3AB     | Single fuse, lug term.         | 13¢  |
| 52 B 285  | 357001   | J    | 1    | 8AG          | Single fuse, lug term.         | 13¢  |
| 52 B 291  | 357001   | J    | 1    | 3AG, 3AB     | Single fuse, screw term.       | 27¢  |
| 40 A 450  | 350218   | G    | 3    | 3AG, 3AB     | Single fuse mounting           | 17¢  |
| 52 B 296  | 387002   | R    | 2    | 2-8AG        | Double fuse mounting           | 25¢  |
| 52 B 297  | 357002   | R    | 1    | 2-3AG or 3AB | Double fuse mounting           | 25¢  |
| 52 B 293  | 393002   | M    | 1    | 8AG          | "Meter-back" mounting          | 21¢  |
| 52 B 291  | 353001   | K    | 3    | 3AG, 3AB     | Panel type mounting            | 35¢  |
| 41 B 788  | 155009   | N    | *    | SFE, (9 a.)  | Inline fuse retainer for autos | 31¢  |
| 41 B 798  | 155014   | N    | *    | SFE, (14 a.) | Inline fuse retainer for autos | 31¢  |
| 41 B 797  | 155015   | N    | *    | SFE, (20 a.) | Inline fuse retainer for autos | 31¢  |
| 41 B 795  | 342012   | H    | 1    |              | Single fuse mounting           | 17¢  |



# Buss Fuses and Accessories

## TYPE MDL FUSETRON FUSES

Time-lag prevents needless blows from start-ups or surges. Operates instantly on high dc or shorts. Thermal cutoff operates slowly overloads. Size,  $1\frac{1}{4} \times \frac{1}{4}$ " U.L. Approved. wt. per pkg., 2 oz. 5 fuses per package.



MDL  
MDX

| PKG OF 5   |           |      |       | Amps   | PKG OF 5   |           |      |       |
|------------|-----------|------|-------|--------|------------|-----------|------|-------|
| Max. Volts | Stock No. | 1-19 | 20-Up |        | Max. Volts | Stock No. | 1-19 | 20-Up |
| 250        | 53 B 441  | 1.13 | 1.00  | 1-1/4  | 250        | 53 B 461  | .82  | .70   |
| 250        | 53 B 442  | 1.13 | 1.00  | 1-1/4  | 125        | 53 B 462  | .76  | .65   |
| 250        | 53 B 443  | .82  | .70   | 1-6/10 | 125        | 53 B 463  | .76  | .65   |
| 250        | 53 B 444  | .82  | .70   | 2-1/2  | 125        | 53 B 464  | .76  | .65   |
| 250        | 53 B 450  | .82  | .70   | 2-1/2  | 125        | 53 B 465  | .62  | .55   |
| 250        | 53 B 451  | .82  | .70   | 2-8/10 | 125        | 53 B 466  | .62  | .55   |
| 250        | 53 B 452  | .82  | .70   | 4      | 32         | 53 B 468  | .62  | .55   |
| 250        | 53 B 457  | .82  | .70   | 5      | 32         | 53 B 469  | .62  | .55   |
| 250        | 53 B 453  | .82  | .70   | 6-1/4  | 32         | 53 B 470  | .62  | .55   |
| 250        | 53 B 454  | .82  | .70   | 8      | 32         | 53 B 471  | .62  | .55   |
| 250        | 53 B 455  | .82  | .70   | 10     | 32         | 53 B 472  | .62  | .55   |
| 250        | 53 B 456  | .82  | .70   | 15     | 32         | 53 B 473  | .62  | .55   |

## TYPE MDX 125-VOLT FUSETRON FUSES

Same thermal delay action as Type MDL above, but open in approximately half the time,  $\frac{1}{4}$  second,  $1\frac{1}{4} \times \frac{1}{4}$ " U.L. Approved. wt. per pkg., 2 oz.; per 100, 15 oz. 5 fuses per package.

| PER PKG. OF 5 |      |       |  | Amps  | PER PKG. OF 5 |      |       |  |
|---------------|------|-------|--|-------|---------------|------|-------|--|
| Stock No.     | 1-19 | 20-Up |  |       | Stock No.     | 1-19 | 20-Up |  |
| 53 B 408      |      |       |  | 6 1/4 | 53 B 505      |      |       |  |
| 53 B 503      | 62c  | 55c   |  | 7     | 53 B 506      | 69c  | 60c   |  |
| 53 B 504      |      |       |  |       |               |      |       |  |

## TYPE N TIME-DELAY FUSETRON FUSES

Following glass tube fuses. Time-delay unaffected by harmless surges might blow ordinary fuses.  $\frac{1}{4}$  and  $\frac{1}{2}$  inch,  $1\frac{1}{4} \times \frac{1}{4}$ " others,  $1\frac{1}{2} \times \frac{1}{4}$ " 250 v. max., except  $\frac{1}{2}$  inch. Av. shpg. wt. per pkg., 2 oz. 5 fuses per pkg.

| PER PKG. OF 5 |      |       |        | Amps | PER PKG. OF 5 |      |       |  |
|---------------|------|-------|--------|------|---------------|------|-------|--|
| Stock No.     | 1-19 | 20-Up |        |      | Stock No.     | 1-19 | 20-Up |  |
| 53 B 535      | 88c  | 75c   | 2      | 2    | 53 B 538      | 78c  | 70c   |  |
| 53 B 536      | 88c  | 75c   | 3-2/10 | 4    | 53 B 539      | 78c  | 65c   |  |
| 53 B 537      | 88c  | 75c   | 4      | 5    | 53 B 540      | 73c  | 65c   |  |
|               |      |       | 5      |      | 53 B 541      | 73c  | 65c   |  |

## TYPE HKL AND HKR INDICATOR FUSEHOLDERS

$\frac{1}{4}$ " fuses. HKL has neon indicator which when fuse is blown. HKL for use in 100 to 125 volt circuits. HKR is for 32-volt circuits; has neon indicator. U.L. Approved, 1 oz.

01. Type HKL 10-Up, EACH ..... 1.08 1-9, EACH ..... 1.26  
02. Type HKR 10-Up, EACH ..... 1.75 1-9, EACH ..... 2.06



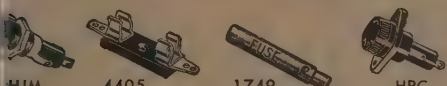
## SP-1 STAK-PAK

Convenient Way to Carry Fuses  
Compact Design; Sturdy Metal Construction  
Holds 50 fuses in a compact, unbreakable case. Ideal for the serviceman's tool box—no loose fuses scattered about. Consists of rack and 50 fuses (per box) of the most-needed types (5 fuses per box): AGC  $\frac{1}{4}$ -amp; AGC  $\frac{1}{2}$ -amp; AGC 1-amp; AGC 3-amp; AGC  $\frac{1}{4}$ -amp; MDL  $\frac{1}{4}$ -amp; MDL 2-amp; MTH 5-amp.  $\frac{1}{4}$ " Shpg. wt., 1 lb.



18. NET ..... 4.83

## BUSS AND G-C FUSE MOUNTINGS



HJM 4405 1749 HPC

for TV, autos, etc. All are Buss, except \*G-C. Fuse projects beyond; always easy to remove. 1 Screw terminals. Av. wt., 1 oz.

| No. | Type | For Fuses                            | NET | Stock No. | Type  | For Fuses                           | NET |
|-----|------|--------------------------------------|-----|-----------|-------|-------------------------------------|-----|
| 00  | HPC  | $1\frac{1}{2} \times 1\frac{1}{4}$ " | 44c | 53 B 480  | 4405  | $1\frac{1}{4} \times \frac{1}{4}$ " | 13c |
| 77  | HCM  | $\frac{3}{8} \times 1\frac{1}{4}$ "  | 43c | 53 B 481  | 4408  | Double 4405                         | 26c |
| 75  | HKP  | $1\frac{1}{4} \times \frac{1}{4}$ "  | 30c | 41 B 735  | 1749* | $2\frac{1}{2} \times \frac{1}{4}$ " | 14c |
| 78  | HJM  | $1\frac{1}{4} \times \frac{1}{4}$ "  | 30c | 41 B 737  | 4513† | $1\frac{1}{2} \times \frac{1}{4}$ " | 34c |

## 4121 TWIN CLIPS FOR $\frac{1}{4}$ " FUSES

Replacement of pigtail TV fuses with standard type. No cutting or soldering. Less fuse. Shpg. wt. per box, 10 oz. per package.

76. NET PER PKG. .... 60c



## G-C "SPEEDX" FUSE PULLERS

A quick removal of cartridge-type fuses without destruction. Terminated end of high dielectric material prevents from dangerous high voltages.



| No. | Mfr's Type | For Fuse Diameters                 | Shpg. Wt. | NET EACH |
|-----|------------|------------------------------------|-----------|----------|
| 136 | 5525       | $\frac{1}{4}$ " to $\frac{1}{2}$ " | 6 oz.     | .58      |
| 137 | 5526       | $\frac{1}{4}$ " to $\frac{1}{2}$ " | 7 oz.     | 1.27     |

## AGC, MTH AND ABC FUSES

Low-resistance fuses providing high-speed action necessary to protect delicate instruments. Carry 110% of rated current; open in one hour at 135%. 250 volts max. U.L. Approved.  $1\frac{1}{4} \times \frac{1}{4}$ " Wt., 100, 15 oz. 5 fuses per package.



## 250 VOLTS MAX

| PER PKG. OF 5 |      |       |    | Amps         | PER PKG. OF 5 |      |       |  |
|---------------|------|-------|----|--------------|---------------|------|-------|--|
| Stock No.     | 1-19 | 20-Up |    |              | Stock No.     | 1-19 | 20-Up |  |
| AGC 53 B 421  | 62c  | 55c   | 5  | MTH 53 B 430 | 31c           | 27c  |       |  |
| AGC 53 B 422  | 41c  | 35c   | 6  | MTH 53 B 431 | 31c           | 27c  |       |  |
| AGC 53 B 424  | 41c  | 35c   | 5  | MTH 53 B 432 | 31c           | 27c  |       |  |
| AGC 53 B 425  | 41c  | 35c   | 8  | ABC 53 B 433 | 49c           | 43c  |       |  |
| AGC 53 B 426  | 24c  | 21c   | 10 | ABC 53 B 569 | 49c           | 43c  |       |  |
| AGC 53 B 427  | 24c  | 21c   | 12 | ABC 53 B 570 | 53c           | 45c  |       |  |
| AGC 53 B 428  | 24c  | 21c   | 15 | ABC 53 B 571 | 53c           | 45c  |       |  |
| AGC 53 B 429  | 22c  | 18c   | 20 | ABC 53 B 572 | 53c           | 45c  |       |  |

## 32-VOLT FUSES

For circuits operating at 32 volts or less.  $1\frac{1}{4} \times \frac{1}{4}$ " U.L. Approved. Shpg. wt., 1 oz. per pkg. 5 fuses per package.

| PER PKG. OF 5 |      |       |    | Amps         | PER PKG. OF 5 |      |       |  |
|---------------|------|-------|----|--------------|---------------|------|-------|--|
| Stock No.     | 1-19 | 20-Up |    |              | Stock No.     | 1-19 | 20-Up |  |
| AGC 53 B 434  |      |       | 15 | AGC 53 B 438 | 16c           | 14c  |       |  |
| AGC 53 B 435  |      |       | 25 | AGC 53 B 439 | 19c           | 16c  |       |  |
| AGC 53 B 436  |      |       | 30 | AGC 53 B 440 | 19c           | 16c  |       |  |
| AGC 53 B 437  |      |       |    |              |               |      |       |  |

## TYPE SFE 32 VOLT AUTO FUSES

For 32 volts or less. Have different lengths to prevent using wrong rating. All are  $\frac{1}{4}$ " diameter. Av. shpg. wt., 100,  $\frac{1}{2}$  lbs. 5 fuses per package.

| PER PKG. OF 5 |      |       |    | Amps     | PER PKG. OF 5 |      |       |  |
|---------------|------|-------|----|----------|---------------|------|-------|--|
| Stock No.     | 1-19 | 20-Up |    |          | Stock No.     | 1-19 | 20-Up |  |
| 53 B 409      | 18c  | 15c   | 14 | 53 B 413 | 14c           | 12c  |       |  |
| 53 B 410      | 18c  | 15c   | 20 | 53 B 414 | 14c           | 12c  |       |  |
| 53 B 411      | 16c  | 14c   | 30 | 53 B 415 | 19c           | 16c  |       |  |
| 53 B 412      | 16c  | 14c   |    |          |               |      |       |  |

## FUSETRON TYPE FNM LONG TIME LAG FUSES

Dual-element type. Fuse link operates only on high overloads or short-circuits; thermal cutoff on low overloads. Thermal cutoff cannot operate quickly on any load—provides long time lag.  $1\frac{1}{2} \times \frac{1}{4}$ " 250 volt maximum, except  $\frac{1}{2}$  inch. Shpg. wt., 5 oz. 10 fuses per pkg.



| PER PKG. OF 10 |      |       |       | Amps     | PER PKG. OF 10 |      |       |  |
|----------------|------|-------|-------|----------|----------------|------|-------|--|
| Stock No.      | 1-9  | 10-Up |       |          | Stock No.      | 1-9  | 10-Up |  |
| 53 B 485       |      |       | 6 1/4 | 53 B 493 |                |      |       |  |
| 53 B 489       |      |       | 2 1/2 | 53 B 494 |                |      |       |  |
| 53 B 491       | 2.44 | 2.07  | 10    | 53 B 495 | 2.44           | 2.07 |       |  |
| 53 B 492       |      |       | 15*   | 53 B 496 |                |      |       |  |

## HOUSEHOLD PLUG FUSES

All are for 125 volts max. Fuse-tron Type T dual-element fuses provide especially effective protection against "blowing" during motor starting cycles. Shpg. wt. per pkg., 5 oz. 4 fuses per package. Type W are Edison base house fuses; have large window area and white background behind fuse element for easily determining fuse condition. Shpg. wt. per pkg., 6 oz. 5 fuses per package. Type S Fustats are reliable time-delay fuses for circuits with Fustat adapters. Designed to prevent overfusing; they cannot be replaced with fuses of higher value without changing adapter. Units do not blow on motor starting; permit circuit loading to capacity. Body color coded for current carrying capacity. Shpg. wt. per pkg., 2 oz. 4 fuses per package.



## FUSETRON TYPE T DUAL-ELEMENT FUSES

| PER PKG. OF 4 |      |       |    | Amps     | PER PKG. OF 4 |      |       |  |
|---------------|------|-------|----|----------|---------------|------|-------|--|
| Stock No.     | 1-19 | 20-Up |    |          | Stock No.     | 1-19 | 20-Up |  |
| 53 B 521      |      |       | 15 | 53 B 523 |               |      |       |  |
| 53 B 522      | 30c  | 28c   | 20 | 53 B 524 | 30c           | 28c  |       |  |

## TYPE W PLUG FUSES

| PER PKG. OF 5 |      |       |    | Amps     | PER PKG. OF 5 |      |       |  |
|---------------|------|-------|----|----------|---------------|------|-------|--|
| Stock No.     | 1-19 | 20-Up |    |          | Stock No.     | 1-19 | 20-Up |  |
| 53 B 560      |      |       | 15 | 53 B 565 |               |      |       |  |
| 53 B 564      | 32c  | 29c   | 30 | 53 B 566 | 29c           | 26c  |       |  |
|               |      |       |    | 53 B 568 |               |      |       |  |

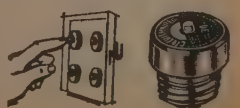
## TYPE S FUSTAT FUSES

| Stock No. | Body Color | Amps | Stock No. | Body Color |
|-----------|------------|------|-----------|------------|
| 42 B 900  | Blue       | 25   | 42 B 902  | Green      |
| 42 B 901  | Orange     | 30   | 42 B 903  | Green      |

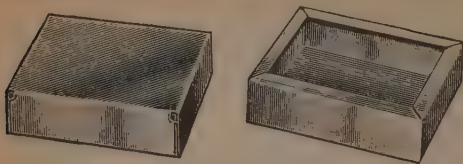
NET PER PACKAGE OF 4 ..... 43c  
20 or More Pkgs., PER PACKAGE OF 4 ..... 40c

## NEW "MINI-BREAKER" CIRCUIT MINDERS

Precision circuit protectors that provide circuit breaker action; open overloaded circuits; reset with pushbutton. Fit Edison base sockets. U.L. Approved. For 120 v. AC. Shpg. wt., 3 oz.



| Stock No. | Ampers | EACH |
|-----------|--------|------|
| 52 B 176  | 15     |      |
| 52 B 177  | 20     | 89c  |
| 52 B 178  | 30     |      |



## STANDARD CHASSIS BASES

Have one-piece construction; corners are reinforced and spot-welded. The four sides are folded at the bottom for additional strength. Aluminum types are spot-welded. Steel chassis gauges: \*No. 22; †No. 20; §No. 18. Aluminum chassis gauges (aluminum gauge): †No. 18; \*\*No. 16; ††No. 14. Less bottom plates. AC-403: 2x9x5<sup>5</sup>.

Allied stocks the complete Bud line of metal goods. Even if the Bud equipment you require is not listed, Allied can fill your order quickly.

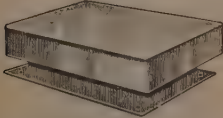
| H.W.D.<br>Inches | Black-Wrinkle Steel |          |       |      | Zinc-Plated Steel |          |       |      | Aluminum  |          |       |      |
|------------------|---------------------|----------|-------|------|-------------------|----------|-------|------|-----------|----------|-------|------|
|                  | Stock No.           | Type     | Lbs.  | NET  | Stock No.         | Type     | Lbs.  | NET  | Stock No. | Type     | Lbs.  | NET  |
| 2x6x4            |                     |          |       |      |                   |          |       |      |           |          |       |      |
| 2x7x5            | 80 P 456            | CB-628*  | 1     | 1.05 | 86 P 277          | CB-629*  | 1 1/4 | 1.27 | 86 P 930  | AC-431†  | 3/4   | 1.0  |
| 2 1/2x9 1/2x5    | 80 P 457            | CB-644*  | 1 1/4 | 1.34 | 86 P 905          | CB-645*  | 1 1/4 | 1.64 | 86 P 112  | AC-402†  | 3/4   | 1.1  |
| 1 1/2x9 1/2x5    | 80 P 458            | CB-788*  | 1     | 1.18 | 86 P 906          | CB-770*  | 1 1/4 | 1.66 | 86 P 113  | AC-403†  | 3/4   | 1.22 |
| 3x6x4            |                     |          |       |      |                   |          |       |      |           |          |       |      |
| 3x7x5            |                     |          |       |      |                   |          |       |      | 86 P 932  | AC-430†  | 1     | 1.31 |
| 3x9 1/2x5        |                     |          |       |      |                   |          |       |      | 86 P 933  | AC-429** | 1     | 1.39 |
| 3x10x5           |                     |          |       |      |                   |          |       |      | 86 P 114  | AC-421†  | 1     | 1.57 |
| 3x13x5           |                     |          |       |      |                   |          |       |      | 86 P 127  | AC-404†  | 1     | 1.60 |
| 3x14x6           | 80 P 460            | CB-755†  | 1 1/4 | 1.71 | 86 P 907          | CB-756†  | 2     | 2.01 | 86 P 934  | AC-422†  | 1     | 1.80 |
| 3x17x6           |                     |          |       |      |                   |          |       |      | 86 P 935  | AC-432** | 1 1/4 | 2.62 |
| 2x9x7            | 80 P 461            | CB-789†  | 1 1/4 | 1.18 | 86 P 272          | CB-1191† | 1 1/4 | 1.47 | 86 P 115  | AC-405†  | 1 1/4 | 1.32 |
| 2x11x7           | 80 P 462            | CB-790†  | 1 1/4 | 1.37 | 86 P 273          | CB-1192† | 1 1/4 | 1.56 | 86 P 116  | AC-406†  | 1 1/4 | 1.43 |
| 3x12x7           | 80 P 463            | CB-791†  | 1 1/4 | 1.42 | 86 P 274          | CB-1193† | 1 1/4 | 1.64 | 86 P 117  | AC-407†  | 1 1/4 | 1.55 |
| 2x13x7           | 80 P 464            | CB-792†  | 1 1/4 | 1.54 | 86 P 275          | CB-793†  | 2     | 2.01 | 86 P 118  | AC-408†  | 1 1/4 | 1.96 |
| 2x15x7           |                     |          |       |      |                   |          |       |      | 86 P 119  | AC-409†  | 1     | 1.64 |
| 2 1/2x15 1/2x5   | 80 P 465            | CB-646†  | 2     | 1.51 | 86 P 276          | CB-1194† | 2 1/4 | 1.88 | 86 P 936  | AC-411** | 1 1/4 | 2.62 |
| 3x15x7           | 80 P 466            | CB-647†  | 1 1/4 | 1.73 | 86 P 908          | CB-1197† | 2 1/4 | 2.35 | 86 P 937  | AC-432** | 1 1/4 | 2.28 |
| 3x15x8 1/4       | 80 P 467            | CB-649†  | 2 1/4 | 1.96 | 86 P 909          | CB-666†  | 2 1/4 | 2.66 |           |          |       |      |
| 3x17x4           | 80 P 468            | CB-651†  | 2 1/4 | 2.20 | 86 P 910          | CB-1066† | 2 1/4 | 2.10 |           |          |       |      |
| 2 1/2x17 1/2x7   | 80 P 469            | CB-1068† | 2 1/4 | 1.76 | 86 P 911          |          |       |      |           |          |       |      |
| 3x17x7           | 80 P 470            | CB-648†  | 2 1/4 | 1.95 | 86 P 912          | CB-1199† | 2 1/4 | 2.32 |           |          |       |      |
| 2 1/2x18x8       | 80 P 471            | CB-757†  | 1 1/4 | 2.11 | 86 P 913          | CB-758†  | 2     | 2.54 | 86 P 938  | AC-423** | 1 1/4 | 2.69 |
| 2 1/2x18x8       | 80 P 472            | CB-701†  | 2     | 1.69 | 86 P 914          | CB-702†  | 2 1/4 | 2.20 |           |          |       |      |
| 2 1/2x18x8       | 80 P 473            | CB-703†  | 2 1/4 | 1.71 | 86 P 915          | CB-703†  | 2 1/4 | 2.20 | 86 P 939  | AC-424** | 1 1/4 | 2.37 |
| 2x17x8           | 80 P 474            | CB-759†  | 2 1/4 | 1.81 | 86 P 916          | CB-760†  | 2 1/4 | 2.29 |           |          |       |      |
| 2x17x8           | 80 P 475            | CB-650†  | 2 1/4 | 1.67 | 86 P 917          | CB-774†  | 2 1/4 | 2.29 | 86 P 940  | AC-425** | 1 1/4 | 2.46 |
| 2x17x8           | 80 P 476            | CB-651†  | 2 1/4 | 2.01 | 86 P 918          | CB-775†  | 3 1/4 | 2.57 | 86 P 120  | AC-412** | 2     | 2.78 |
| 3x12x10          | 80 P 477            | CB-652†  | 3     | 1.85 | 86 P 919          | CB-1195† | 3 1/4 | 2.20 | 86 P 121  | AC-413** | 2     | 2.78 |
| 3x14x10          | 80 P 478            | CB-653†  | 4     | 2.00 | 86 P 920          | CB-770†  | 4     | 2.39 | 86 P 122  | AC-414** | 2 1/4 | 2.63 |
| 2x17x10          | 80 P 479            | CB-654†  | 3 1/4 | 1.96 | 86 P 921          | CB-769†  | 3 1/4 | 2.34 | 86 P 942  | AC-415** | 1 1/4 | 2.63 |
| 3x17x10          | 80 P 480            | CB-636†  | 4     | 1.96 | 86 P 922          | CB-1196† | 5 1/4 | 2.99 | 86 P 943  | AC-416** | 2 1/4 | 3.11 |
| 3x17x10          | 80 P 481            | CB-655†  | 5     | 2.49 | 86 P 923          | CB-637†  | 4     | 2.78 |           |          |       |      |
| 3x23x10          | 80 P 482            | CB-656†  | 5 1/4 | 2.80 | 86 P 924          | CB-1197† | 6     | 3.35 | 86 P 123  | AC-426†† | 3     | 3.35 |
| 2x17x11          | 80 P 483            | CB-657†  | 4 1/4 | 2.30 | 86 P 925          | CB-770†  | 4 1/4 | 3.42 | 86 P 124  | AC-417†† | 2 1/4 | 3.89 |
| 3x17x11          | 80 P 484            | CB-658†  | 4 1/4 | 2.71 | 86 P 926          | CB-771†  | 4 1/4 | 3.42 |           |          |       |      |
| 2x17x12          | 80 P 485            | CB-663†  | 4 1/4 | 2.39 | 86 P 927          | CB-661†  | 4 1/4 | 3.03 | 86 P 128  | AC-418†† | 3     | 4.00 |
| 2x17x12          | 80 P 486            | CB-664†  | 5 1/4 | 2.85 | 86 P 928          | CB-662†  | 5 1/4 | 3.60 | 86 P 944  | AC-419†† | 2 1/4 | 3.44 |
| 2x17x13          | 80 P 487            | CB-659†  | 5     | 2.85 | 86 P 929          | CB-772†  | 5 1/4 | 3.65 | 86 P 125  | AC-427†† | 3 1/4 | 4.12 |
| 3x17x13          | 80 P 488            | CB-660†  | 5 1/4 | 3.34 | 86 P 930          | CB-773†  | 6     | 3.99 | 86 P 126  | AC-428†† | 4     | 5.15 |
| 4x17x10          | 80 P 489            | CB-640†  | 6 1/2 | 2.86 | 86 P 931          | CB-641†  | 7     | 3.44 |           |          |       |      |
| 4x17x13          | 80 P 490            | CB-642†  | 7 1/2 | 3.84 | 86 P 932          | CB-643†  | 8     | 4.59 |           |          |       |      |
| 5x17x10          | 80 P 491            | CB-623†  | 7 1/2 | 4.42 | 86 P 933          | CB-644†  | 8 1/4 | 4.53 |           |          |       |      |
| 5x17x13          | 80 P 492            | CB-625†  | 8     | 4.83 | 86 P 934          | CB-626†  | 8 1/4 | 5.81 |           |          |       |      |

## BOTTOM PLATES FOR CHASSIS BASES

Bottom plates to fit the chassis bases listed above. Ideal for shielding. In zinc-plated or black ripple heavy-gauge steel plate and aluminum. Four raised bosses in corners to prevent marring and scratching of table-top or shelves. Drilled for use with No. 6 self-tapping screws.

| Size      | Lbs.  | Black Wrinkle |          |      |     | Zinc Plated |          |      |     | Aluminum  |          |       |      |
|-----------|-------|---------------|----------|------|-----|-------------|----------|------|-----|-----------|----------|-------|------|
|           |       | Stock No.     | Type No. | Lbs. | NET | Stock No.   | Type No. | Lbs. | NET | Stock No. | Type No. | Lbs.  | NET  |
| 5x7 1/4   | 1     | 80 P 386      | BP-705   | .56  |     | 80 P 406    | BP-706   | .68  |     | 80 P 426  | BPA-1589 | 3/4   | .73  |
| 5x9 1/4   | 1 1/4 | 80 P 387      | BP-680   | .66  |     | 80 P 407    | BP-667   | .73  |     | 80 P 427  | BPA-1590 | 3/4   | .73  |
| 5x10 1/4  | 1 1/4 | 80 P 388      | BP-536   | .61  |     | 80 P 408    | BP-538   | .72  |     | 80 P 428  | BPA-1591 | 3/4   | .73  |
| 7x7       | 1 1/4 | 80 P 389      | BP-681   | .90  |     | 80 P 409    | BP-668   | .98  |     | 80 P 429  | BPA-1592 | 3/4   | .78  |
| 7x9 1/4   | 1 1/4 | 80 P 390      | BP-682   | .92  |     | 80 P 410    | BP-669   | .97  |     | 80 P 430  | BPA-1593 | 3/4   | .78  |
| 7x11 1/4  | 1 1/4 | 80 P 391      | BP-683   | .93  |     | 80 P 411    | BP-670   | 1.05 |     | 80 P 431  | BPA-1594 | 3/4   | .88  |
| 7x12 1/4  | 1 1/4 | 80 P 392      | BP-537   | .97  |     | 80 P 412    | BP-539   | 1.10 |     | 80 P 432  | BPA-1595 | 1     | .95  |
| 7x13 1/4  | 1 1/4 | 80 P 393      | BP-684   | 1.00 |     | 80 P 413    | BP-671   | 1.18 |     | 80 P 433  | BPA-1596 | 1     | 1.12 |
| 5x13 1/4  | 1 1/4 | 80 P 394      | BP-685   | .82  |     | 80 P 414    | BP-672   | .98  |     |           |          |       |      |
| 4x17 1/4  | 2     | 80 P 395      | BP-1069  | .82  |     | 80 P 415    | BP-1067  | 1.05 |     |           |          |       |      |
| 7x17 1/4  | 2     | 80 P 396      | BP-686   | .88  |     | 80 P 416    | BP-673   | 1.34 |     |           |          |       |      |
| 8x10 1/4  | 1 1/4 | 80 P 400      | BP-707   | .90  |     | 80 P 417    | BP-708   | 1.03 |     |           |          |       |      |
| 8x12 1/4  | 2     | 80 P 397      | BP-709   | 1.04 |     | 80 P 418    | BP-710   | 1.31 |     |           |          |       |      |
| 8x17 1/4  | 2 1/4 | 80 P 398      | BP-687   | .93  |     | 80 P 419    | BP-674   | 1.51 |     |           |          |       |      |
| 10x12 1/4 | 2     | 80 P 399      | BP-688   | .93  |     | 80 P 420    | BP-675   | 1.54 |     |           |          |       |      |
| 10x14 1/4 | 2     | 80 P 401      | BP-517   | 1.22 |     | 80 P 421    | BP-514   | .80  |     |           |          |       |      |
| 10x17 1/4 | 2 1/4 | 80 P 402      | BP-689   | 1.18 |     | 80 P 422    | BP-676   | 1.57 |     | 80 P 434  | BPA-1597 | 1 1/4 | 1.45 |
| 11x17 1/4 | 2 1/4 | 80 P 403      | BP-690   | 1.18 |     | 80 P 423    | BP-677   | 1.57 |     |           |          |       |      |
| 12x17 1/4 | 2 1/4 | 80 P 404      | BP-691   | 1.24 |     | 80 P 424    | BP-678   | 1.83 |     | 80 P 435  | BPA-1598 | 1 1/4 | 2.03 |
| 13x17 1/4 | 2 1/4 | 80 P 405      | BP-692   | 1.44 |     | 80 P 425    | BP-679   | 2.20 |     |           |          |       |      |

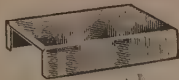
## HEAVY-DUTY CHASSIS BASES



Rugged chassis bases. Formed of one-piece heavy 1/2" steel. Corners spot-welded and sides folded over at bottom. Electro-zinc plated. With bottom plates and screws.

| Stock No. | Type    | H.W.D.   | Lbs.   | NET  |
|-----------|---------|----------|--------|------|
| 86 P 240  | CB-1765 | 3x17x8"  | 8      | 4.66 |
| 86 P 242  | CB-1767 | 3x17x11" | 9 1/4  | 4.74 |
| 86 P 243  | CB-1768 | 2x17x13" | 10     | 5.23 |
| 86 P 244  | CB-1769 | 3x17x13" | 10 1/4 | 5.32 |
| 86 P 946  | CB-1770 | 4x17x13" | 11 1/2 | 5.73 |

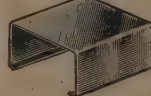
## OPEN-END CHASSIS



Open-end, heavy-gauge aluminum chassis. Have U-shaped construction with ends folded over 9/4" to provide additional strength. Available in a wide variety of sizes. Excellent for use with Bud cabinets specified in table, below. Av. shpg. wt., 1 1/2 lbs.

| Stock No. | Type   | H.W.D.         | For Cabinet    | NET  |
|-----------|--------|----------------|----------------|------|
| 80 P 437  | CB-30  | 1 1/2x7x5"     |                | .95  |
| 80 P 438  | CB-41  | 1 1/2x7x7"     | C-993          | 1.22 |
| 80 P 440  | CB-996 | 1 1/2x9x5 1/2" | C-973          | 1.07 |
| 80 P 441  | CB-976 | 1 1/2x9x7 1/2" | C-999, CD-1481 | 1.37 |
| 80 P 443  | CB-997 | 1 1/2x11x7"    | C-994, CD-1482 | 1.27 |
| 80 P 444  | CB-998 | 1 1/2x13x7"    | C-995, CD-1483 | 1.56 |
| 80 P 436  | CB-38  | 2x6x7"         | C-1584         | .98  |
| 80 P 439  | CB-39  | 2x8x7"         | C-1585         | 1.15 |
| 80 P 442  | CB-40  | 2x10x7"        | C-1586         | 1.34 |

## MINIATURE ALUMINUM CHASSIS



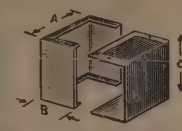
Open-end aluminum chassis for limited space applications. Excellent for use with miniature tubes and for sub-assemblies. Have mounting flanges. Av. shpg. wt., 3/4 lbs.

| Stock No. | Type    | H.W.D.         | For Cabinet | NET |
|-----------|---------|----------------|-------------|-----|
| 80 P 446  | CB-1624 | 1x3 1/4x1 1/4" | CU-283      | .44 |
| 80 P 452  | CB-1617 | 1x3 1/4x4"     | C-1606      | .44 |
| 80 P 448  | CB-1626 | 1x4 1/4x2 1/4" | CU-728      | .44 |
| 80 P 453  | CB-1618 | 1x4 1/4x4"     | C-1607      | .44 |
| 80 P 454  | CB-1619 | 1x5 1/4x4"     | C-1608      | .44 |
| 80 P 455  | CB-1620 | 1x6 1/4x4"     | C-1609      | .44 |
| 80 P 445  | CB-1623 | 1x7 1/4x2 1/4" | C-1610      | .44 |
| 80 P 450  | CB-1628 | 1x7 1/4x6 1/4" | C-1788      | .51 |
| 80 P 449  | CB-1627 | 1x7 1/4x3 3/4" | CU-729      | .51 |
| 80 P 451  | CB-1625 | 1x7 1/4x3 3/4" | CU-1098     | .51 |
| 80 P 447  | CB-1625 | 2x4 1/4x1 1/4" | CJ-788      | .51 |



## ALUMINUM MINIBOXES

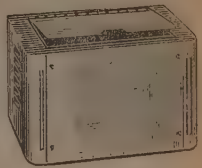
of aluminum boxes with gray hammer-toned or natural aluminum finish. Particularly suited for sub-assemblies. May be amplifiers, converters, TVI filters, etc. Two-piece construction permits easy access to circuitry. Flanges assure leakage and high rigidity. Dual-purpose latches permit quick assembly and disassembly; also permit use with self-tapping screws (supplied).



| Shpg. Wt. Lbs. | Gray Hammer-tone | Mfr's Type | NET EACH | Natural Aluminum | Mfr's Type | NET EACH |
|----------------|------------------|------------|----------|------------------|------------|----------|
| 1/4            | 80 P 342         | CU-2100A   | .73      | 80 P 360         | CU-3000A   | .58      |
| 1/4            | 80 P 343         | CU-2101A   | .74      | 80 P 377         | CU-3017A   | .61      |
| 1/4            | 80 P 343         | CU-2101A   | .74      | 80 P 361         | CU-3001A   | .60      |
| 1/4            | 80 P 347         | CU-2115A   | .90      | 80 P 375         | CU-3015A   | .73      |
| 1/4            | 80 P 344         | CU-2102A   | .78      | 80 P 362         | CU-3002A   | .63      |
| 1/4            | 80 P 345         | CU-2103A   | .88      | 80 P 363         | CU-3003A   | .71      |
| 1/4            | 80 P 358         | CU-2116A   | .90      | 80 P 376         | CU-3016A   | .73      |
| 1/4            | 80 P 346         | CU-2104A   | .93      | 80 P 364         | CU-3004A   | .74      |
| 1/4            | 80 P 349         | CU-2105A   | 1.18     | 80 P 365         | CU-3005A   | .94      |
| 1/4            | 80 P 348         | CU-2106A   | 1.00     | 80 P 366         | CU-3006A   | .80      |
| 1              | 80 P 349         | CU-2107A   | 1.47     | 80 P 367         | CU-3007A   | 1.18     |
| 1              | 80 P 350         | CU-2108A   | 1.62     | 80 P 368         | CU-3008A   | 1.29     |
| 1 1/4          | 80 P 351         | CU-2109A   | 2.06     | 80 P 369         | CU-3009A   | 1.65     |
| 1 1/4          | 80 P 355         | CU-2113A   | 1.18     | 80 P 373         | CU-3013A   | .94      |
| 1 1/4          | 80 P 352         | CU-2110A   | 2.20     | 80 P 370         | CU-3010A   | 1.84     |
| 1 1/4          | 80 P 356         | CU-2114A   | 2.32     | 80 P 374         | CU-3014A   | 1.22     |
| 1 1/2          | 80 P 353         | CU-2111A   | 3.14     | 80 P 371         | CU-3011A   | 2.51     |
| 1 1/2          | 80 P 354         | CU-2112A   | 3.14     | 80 P 372         | CU-3012A   | 2.51     |

## STREAMLINED CABINETS

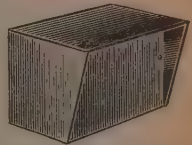
Steel cabinets for electrical or electronic devices not requiring excessive depth. Feature recessed hinged cover with convenient finger lift; panels fit flush with embossed, rounded corner fronts. All components built into cabinets are easily accessible. Has 3/4" high opening across the back for cables or rear controls. Louvered sides provide ample ventilation. All are 8" high and 8 1/2" deep except 12" high and 12" deep. CD-1485 has 1/2" vertical chrome strip fastened to corners. Bud open-end chassis are recommended for use in these cabinets. Choice of gray hammer-tone or black wrinkle finish.



| Size              | Panel | Mfr's Type | Gray Hammer-tone | Black Wrinkle | Wt. Lbs. | NET EACH |
|-------------------|-------|------------|------------------|---------------|----------|----------|
| 10 1/2" x 12 1/2" | 8x8"  | CD-1480    | 88 PX 650        | 88 PX 651     | 5 1/2    | 5.78     |
| 12 1/2" x 12 1/2" | 8x10" | CD-1481    | 88 PX 652        | 88 PX 653     | 6        | 5.89     |
| 14 1/2" x 12 1/2" | 8x12" | CD-1482    | 88 PX 654        | 88 PX 655     | 6 1/2    | 6.18     |
| 16 1/2" x 12 1/2" | 8x14" | CD-1483    | 88 PX 656        | 88 PX 657     | 7        | 6.63     |
| 18 1/2" x 12 1/2" | 8x16" | CD-1484    | 88 PX 658        | 88 PX 659     | 7 1/2    | 7.21     |
| 20 1/2" x 12 1/2" | 8x18" | CD-1485    | 88 PX 660        | 88 PX 661     | 15       | 14.65    |

## COWL-TYPE MINIBOXES

New cowl-type miniboxes. Attractively styled, easily drilled or punched. Hinged projecting cover which reduces glare on the panel from overhead lighting. Also provide protection for knobs, switches, and meter faces. May be used for housing receivers, transmitters, test equipment, etc. Cover has two 1/2" box braces to which bottom is attached with #6 sheet metal screws provided. This construction results in a sturdy, rigid housing. All are made of long-lasting, 18-gauge aluminum. Choice of handsome, gray hammer-tone finish or natural aluminum finish.



| Size H.W.D. | Shpg. Wt. Lbs. | *Gray Hammer-tone | Mfr's Type | NET EACH | Natural Aluminum | Mfr's Type | NET EACH |
|-------------|----------------|-------------------|------------|----------|------------------|------------|----------|
| 6x10 1/2"   | 2 1/2          | 88 P 684          | SC-2130    | 5.83     | 88 P 688         | SC-3030    | 4.21     |
| 7x12 1/2"   | 2              | 88 P 685          | SC-2131    | 6.37     | 88 P 689         | SC-3031    | 4.61     |
| 8x8 1/2"    | 1 1/2          | 88 P 686          | SC-2132    | 3.38     | 88 P 690         | SC-3032    | 2.40     |
| 5x5 1/2"    | 1              | 88 P 687          | SC-2133    | 3.53     | 88 P 691         | SC-3033    | 2.55     |

## METAL UTILITY CABINETS

utility cabinets for all types of electronic equipment. Excellent for housing receivers, monitors, test equipment, frequency meters, etc. Well adapted for shielding of RF components, RF sections, other special Two removable panels attach to flanges f-tapping screws. \*Aluminum.



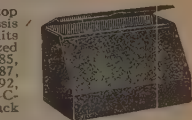
| Mfr's Type | Wt. Lbs. | Stock No. (Steel) | NET EACH |
|------------|----------|-------------------|----------|
| CU883      | 1 1/4    | 86 P 200          | 1.07     |
| CU728      | 1 1/4    | 86 P 201          | 1.20     |
| CU729      | 2 1/4    | 86 P 202          | 1.35     |
| CU1098     | 3        | 86 P 203          | 2.05     |
| CU1099     | 4        | 86 P 204          | 2.29     |
| CU879      | 5        | 86 P 205          | 3.27     |
| CU880      | 6        | 86 P 206          | 3.32     |
| CU1124     | 5        | 86 P 206          | 3.22     |
| CU881      | 9        | 86 P 208          | 4.25     |
| CU882      | 9        | 86 P 209          | 4.42     |

| Mfr's Type | Wt. Lbs. | Etched Aluminum | NET EACH | * Gray Hammer-tone | NET EACH |
|------------|----------|-----------------|----------|--------------------|----------|
| AU-1083    | 1/4      | 88 P 543        | 1.26     | 88 P 548           | 1.47     |
| AU-1028    | 1/4      | 88 P 544        | 1.34     | 88 P 549           | 1.64     |
| AU-1029    | 1/4      | 88 P 545        | 1.47     | 88 P 550           | 1.80     |
| AU-1030    | 3/4      | 88 P 546        | 2.13     | 88 P 551           | 2.37     |
| AU-1040    | 1        | 88 P 547        | 2.46     | 88 P 552           | 2.78     |

## SLOPING-PANEL CABINETS

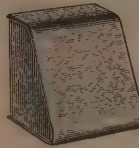
Sloping-panel steel cabinets with hinged top for easy access to tubes and top-of-chassis components. Removable front panel permits easy attachment of chassis. Fit following sized chassis: Type C-1584, 7x6x2"; Type C-1585, 7x8x2"; Type C-1586, 7x10x2"; Type C-1587, 7x12x2"; Type C-1588, 7x9x2"; Type C-1892, 8x12x2"; Type C-1893, 10x12x2"; Type C-1894, 7x13x2"; Type C-1896, 7x12x3"; In black wrinkle or light-gray hammer-tone finish.



| Size H.W.D.               | Wt. Lbs. | Mfr's Type | Stock No. Black | Mfr's Type | Stock No. Gray | NET EACH |
|---------------------------|----------|------------|-----------------|------------|----------------|----------|
| 6 1/2" x 7 1/4" x 7 1/4"  | 3        | C-1584     | 86 P 900        | C-1584HG   | 88 P 576       | 3.23     |
| 6 1/2" x 9 1/4" x 7 1/4"  | 3 1/4    | C-1585     | 86 P 901        | C-1585HG   | 88 P 577       | 3.67     |
| 6 1/2" x 11 1/4" x 7 1/4" | 4        | C-1586     | 86 P 902        | C-1586HG   | 88 P 578       | 4.25     |
| 8x13 1/4" x 8 1/4"        | 5 1/4    | C-1892     | 86 PX 903       | C-1892HG   | 88 PX 581      | 5.84     |
| 10x16 1/4" x 10 1/4"      | 8 1/4    | C-1893     | 86 PX 904       | C-1893HG   | 88 PX 582      | 7.69     |
| 8x10 1/4" x 8 1/4"        | 3 1/4    | C-1587     | 86 P 968        | C-1587HG   | 88 P 579       | 4.42     |
| 8x12 1/4" x 8 1/4"        | 3 1/4    | C-1588     | 86 P 969        | C-1588HG   | 88 P 580       | 4.91     |
| 8x14 1/4" x 8 1/4"        | 4 1/4    | C-1894     | 86 PX 970       | C-1894HG   | 88 PX 583      | 5.23     |
| 9x18 1/4" x 8 1/4"        | 7 1/4    | C-1896     | 86 PX 971       | C-1896HG   | 88 PX 584      | 7.53     |

## UNIVERSAL SLOPING-PANEL CABINETS

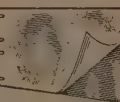
ie, streamlined sloping-panel cabinets in steel or aluminum. Offer enough to house a two or three miniature tube or gadget. Sides and one-piece detachable fasten to the body with self-screws for easy service and replacement components. Fully enclosed to exclude dust moisture. Easily accommodate most small All units are 4" high, 4 1/4" deep. Finished active, gray hammer-tone finish.



| Steel Stock No. | Mfr's Type | Shpg. Wt. Lbs. | NET EACH | Aluminum Stock No. | Mfr's Type | Shpg. Wt. Lbs. | NET EACH |
|-----------------|------------|----------------|----------|--------------------|------------|----------------|----------|
| 88 P 642        | C-1606     | 3/4            | 1.42     | 88 P 646           | AC-1610    | 1/2            | 1.61     |
| 88 P 643        | C-1607     | 3/4            | 1.52     | 88 P 647           | AC-1611    | 1/2            | 1.75     |
| 88 P 644        | C-1608     | 1 1/2          | 1.62     | 88 P 648           | AC-1612    | 3/4            | 1.86     |
| 88 P 645        | C-1609     | 1 1/2          | 1.86     | 88 P 649           | AC-1613    | 3/4            | 2.06     |

## WELDED-SURFACE RACK PANELS

acks, naturally bright aluminum alloy rack panels in blemish-free mill finish. Covered on sides with sturdy, pressure sensitive white to protect against damage. Paper is excellent on which to mark panel for hole-cutting and 19" wide; standard notching.



| Steel Wt. Lbs. | Shpg. Wt. Lbs. | Mfr's Type | Stock No. | NET EACH |
|----------------|----------------|------------|-----------|----------|
| 1/4            | 1/4            | SFA-1831   | 88 PX 662 | .95      |
| 1/4            | 1/4            | SFA-1832   | 88 PX 663 | 1.31     |
| 1/4            | 1/4            | SFA-1833   | 88 PX 664 | 1.76     |
| 1/4            | 1 1/4          | SFA-1834   | 88 PX 665 | 2.17     |
| 1/2            | 1/2            | SFA-1835   | 88 PX 666 | 2.61     |
| 1/2            | 1/2            | SFA-1836   | 88 PX 667 | 3.27     |
| 1/2            | 1/2            | SFA-1837   | 88 PX 668 | 3.77     |
| 1/2            | 1/2            | SFA-1838   | 88 PX 669 | 4.36     |
| 3/4            | 3/4            | SFA-1839   | 88 PX 670 | 4.87     |
| 3/4            | 3/4            | SFA-1840   | 88 PX 671 | 5.36     |
| 3/4            | 3/4            | SFA-1841   | 88 PX 672 | 5.87     |
| 3/4            | 3/4            | SFA-1842   | 88 PX 673 | 6.37     |

## ALUMINUM AND STEEL CARRYING CASES

Ideal housings for portable transceivers, test instruments, power supplies, radio-control units, field strength meters, phono oscillators, etc. Ruggedly constructed to withstand hard usage. Front and back panels mount with self-tapping screws. Panels are easily removable to provide access to interior; can be used for mounting components such as meters, relays, transformers, power resistors, etc. Available in either welded steel for maximum strength, or in aluminum for light weight. Steel units in black wrinkle or gray hammer-tone finish; aluminum units in natural, or gray hammer-tone finish.



## PORTABLE STEEL CASES

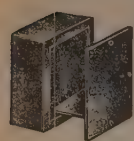
| Size H.W.D.        | Mfr's Type | Wt. Lbs. | Stock No. Black | Stock No. Gray | NET EACH |
|--------------------|------------|----------|-----------------|----------------|----------|
| 9x6x5"             | CC-1095    | 3 1/4    | 80 P 798        | 80 P 813       | 2.95     |
| 6x9x5"             | CC-1091    | 3 1/4    | 80 P 799        | 80 P 814       | 2.95     |
| 12x7x6"            | CC-1096    | 4        | 80 P 808        | 80 P 816       | 4.10     |
| 7x12x6"            | CC-1092    | 4        | 80 P 809        | 80 P 817       | 4.10     |
| 15x7 1/4" x 7 1/4" | CC-1097    | 5        | 80 PX 810       | 80 PX 818      | 4.79     |
| 10x10x7"           | CC-1103    | 5        | 80 PX 811       | 80 PX 819      | 4.54     |
| 9x15x7"            | CC-1093    | 5        | 80 PX 812       | 80 PX 848      | 5.73     |

## PORTABLE ALUMINUM CASES

| Size H.W.D. | Mfr's Type | Wt. Lbs. | Stock No. Natural | NET EACH | Stock No. Gray | NET EACH |
|-------------|------------|----------|-------------------|----------|----------------|----------|
| 9x6x5"      | ACC-2095   | 2        | 88 P 567          | 3.03     | 88 P 571       | 3.44     |
| 6x9x5"      | ACC-2096   | 2        | 88 P 568          | 3.03     | 88 P 572       | 3.44     |
| 12x7x6"     | ACC-2096   | 2        | 88 P 568          | 3.03     | 88 P 572       | 3.44     |
| 7x12x6"     | ACC-2092   | 2        | 88 P 568          | 4.41     | 88 P 570       | 4.99     |

# Bud Metal Products

## MINIATURE UTILITY CABINETS WITH ATTACHED CHASSIS



Sturdily-made, unusually compact, steel utility cabinets with a built-in chassis attached to the front panel. Especially suitable for standing-wave bridges, frequency meters, small transistorized receivers, code practice oscillators, decade boxes, crystal sets, and many other types of small, removable front and rear panels fastened with self-tapping screws permit easy access to components and provide maximum layout flexibility. Black-wrinkle enamel finish.

| Stock No. | Mfr's Type | Cabinet H.W.D. | Chassis H.W.D.         | Wt. Lbs. | NET EACH |
|-----------|------------|----------------|------------------------|----------|----------|
| 80 P 326  | C-1793     | 4x4x2"         | 1x3 1/2 x 1 1/2"       | 3 1/2    | 1.31     |
| 80 P 327  | C-1794     | 4x5x2"         | 1 1/2 x 2 1/2"         | 4        | 1.45     |
| 80 P 328  | C-1795     | 5x4x3"         | 1 1/2 x 3 1/2 x 2 1/2" | 4 1/2    | 1.59     |
| 80 P 329  | C-1796     | 6x5x4"         | 1 1/2 x 4 1/2 x 3 1/2" | 5 1/2    | 1.88     |
| 80 P 330  | C-1797     | 6x6x4"         | 1 1/2 x 5 1/2 x 3 1/2" | 6 1/2    | 1.98     |
| 80 P 331  | C-1798     | 6x6x5"         | 1 1/2 x 5 1/2 x 4 1/2" | 7 1/2    | 2.13     |

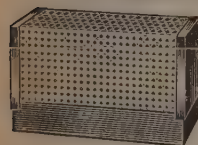
## PANEL-MOUNTING CHASSIS



Ideal for vertical chassis installation where space in depth is limited or front service is desired. Open-side chassis for standard 1 1/2" mounting. .062" aluminum with reinforced corners. 1" flange on ends, with 4 elongated holes for mounting to any rack with std. panel notching. All other edges have 3/4" flanges. All models 17" wide, excluding flange, and 5 1/2" deep.

| Stock No. | Type    | Height  | Lbs.  | NET  |
|-----------|---------|---------|-------|------|
| 86 PX 185 | CB-1370 | 1 1/2"  | 1     | 2.25 |
| 86 PX 186 | CB-1371 | 3"      | 1 1/2 | 2.54 |
| 86 PX 187 | CB-1372 | 4 1/2"  | 1 1/2 | 2.78 |
| 86 PX 188 | CB-1373 | 6"      | 2 1/2 | 3.19 |
| 86 PX 189 | CB-1374 | 8 1/2"  | 2 1/2 | 3.68 |
| 86 PX 190 | CB-1375 | 10 1/2" | 3 1/2 | 4.16 |
| 86 PX 191 | CB-1376 | 12 1/2" | 3 1/2 | 4.74 |
| 86 PX 192 | CB-1377 | 14 1/2" | 3 1/2 | 5.23 |

## STANDARD AMPLIFIER FOUNDATIONS



Ideal for most amplifier requirements. Foundations consist of regular chassis with rugged metal side covers. Solid pieces are used on ends of each cover for bracing and a snug fit to chassis. Heavy-gauge metal screening assures proper protection and ventilation of components. Metal handles provide portability. Types CA-1125, and CA-1126 have 2 1/2" high chassis; Type CA-1128 has 3" high chassis. All units have a black wrinkle finish.

| Stock No. | Type    | H.W.D.                   | Lbs. | NET  |
|-----------|---------|--------------------------|------|------|
| 80 P 697  | CA-699  | 8 1/2 x 5 1/2 x 5 1/2"   | 3    | 5.50 |
| 80 P 698  | CA-1125 | 8 1/2 x 13 1/2 x 5 1/2"  | 4    | 6.30 |
| 80 P 699  | CA-1126 | 8 1/2 x 17 1/2 x 5 1/2"  | 6    | 7.11 |
| 80 P 696  | CA-1128 | 8 1/2 x 21 1/2 x 10 1/2" | 7    | 7.37 |

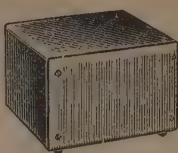
## NEW SHADOW CABINETS



Versatile housing for amplifiers, test equipment, etc. Both front panels as well as the bottom may be removed for installation and servicing purposes. Front panel is recessed 1" to protect controls, meters, etc. Recessed panel and beveled front edges of cabinet provide attractive appearance. Body constructed of 18-gauge steel, panels of 16-gauge steel. Rubber feet attached to bottom of cabinet prevent marring of the surface on which it may be placed. Finished in attractive, light gray Hammertone.

| Stock No. | Mfr's Type | Size H.W.D.          | Use Bud Chassis | Wt. Lbs. | NET EACH |
|-----------|------------|----------------------|-----------------|----------|----------|
| 82 PX 746 | SB-2140    | 8x14 1/2 x 10"       | AC-424          | 10 1/2   | 6.37     |
| 82 PX 747 | SB-2141    | 7 1/2 x 13 1/2 x 9"  | AC-407          | 8        | 4.90     |
| 82 PX 748 | SB-2142    | 9 1/2 x 17 1/2 x 11" | AC-408          | 8        | 8.67     |
| 82 PX 749 | SB-2143    | 6x15 1/2 x 9"        | AC-409          | 7 1/2    | 4.75     |

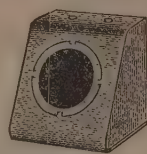
## NEW UTILITY CABINETS



Attractive housing with rounded corners. All constructed of 20-gauge steel. Front and rear panels removable; rear panel louvered for ventilation & rubber feet. Body finished in dark gray enamel, panels in light gray enamel.

| Stock No. | Mfr's Type | Size H.W.D.             | Wt. Lbs. | NET EACH |
|-----------|------------|-------------------------|----------|----------|
| 88 P 692  | CU-463     | 4 1/2 x 6 1/2 x 3 1/2"  | 1 1/2    | 5.39     |
| 88 P 693  | CU-465     | 4 1/2 x 6 1/2 x 5 1/2"  | 2 1/2    | 6.22     |
| 88 P 694  | CU-585     | 5 1/2 x 8 1/2 x 5 1/2"  | 3        | 8.18     |
| 88 P 695  | CU-587     | 5 1/2 x 8 1/2 x 7 1/2"  | 4        | 9.82     |
| 88 P 696  | CU-7125    | 7 1/2 x 12 1/2 x 5 1/2" | 6        | 9.51     |
| 88 P 697  | CU-7127    | 7 1/2 x 12 1/2 x 7 1/2" | 11       | 10.14    |

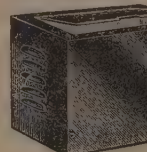
## UNIVERSAL METER CASES



For use with 2" or 3" meters. With front panel for 2" meter. Knockout ring enlarges hole for 3" meter. Have one-piece back and side attached with 4 screws. Top has two 3/4" knockouts for terminal posts or feed-throughs. Steel or aluminum; gray Hammertone 1/2 x 4 x 4 1/2".

| Stock No. | Type     | Material | Lbs. | NET  |
|-----------|----------|----------|------|------|
| 88 P 541  | CM 1935  | Steel    | 1    | 1.20 |
| 88 P 542  | CMA 1936 | Aluminum | 3/4  | 1.44 |

## INSTRUMENT AND RECEIVER CABINETS



Ruggedly constructed steel cabinets. Have recessed hinged cover for easy access. Front panel is held securely in place with self-tapping screws. Panel extends full width of cabinet - provides maximum space for controls. Louvers on each side assure ample ventilation. Black wrinkle enamel finish.

| Stock No. | Type   | H.W.D.    | Lbs.  | NET  |
|-----------|--------|-----------|-------|------|
| 80 P 378  | C-973  | 7x8x8"    | 5     | 4.10 |
| 80 P 379  | C-973  | 7x10x8"   | 5 1/2 | 4.74 |
| 80 P 380  | C-994  | 7x12x8"   | 6     | 4.91 |
| 80 PX 381 | C-995  | 7x14x8"   | 6     | 5.15 |
| 80 PX 382 | C-1190 | 8x16x8"   | 7     | 7.45 |
| 80 PX 383 | C-975  | 9x15x11"  | 8     | 9.01 |
| 80 PX 384 | C-999  | 12x18x12" | 15    | 9.72 |

## MINIATURE AMPLIFIER FOUNDATION



Type CA-1754. Meets the requirements of builders employing miniaturized components. Chassis is only 2" high, 7" wide, and 5" deep. With cover fastened in place, entire unit stands only 6 1/2" high. All-steel construction. Removable cover includes a carrying handle. Cover is heavily protected against self-tapping screws. Black wrinkle finish. 2 lbs.

86 P 214. NET EACH. . . . . 3.92

## STANDARD RACK PANELS



Heavy-duty rack panel constructed of 1/2" aluminum. All are 19" in width and have notched edges to fit mounting screw spacings of all standard telephone type relay racks. Light gray Hammertone.

| Stock No. | Height  | Wt. Lbs. | NET  |
|-----------|---------|----------|------|
| 88 PX 601 | 1 1/2"  | 1        | 1.07 |
| 88 PX 602 | 3"      | 2        | 1.89 |
| 88 PX 603 | 4 1/2"  | 2        | 2.37 |
| 88 PX 605 | 8 1/2"  | 3        | 2.78 |
| 88 PX 606 | 10 1/2" | 4        | 4.01 |
| 88 PX 607 | 12 1/2" | 4        | 4.66 |
| 88 PX 608 | 15 1/2" | 5        | 5.23 |
| 88 PX 610 | 17 1/2" | 5        | 5.73 |
| 88 PX 611 | 19 1/2" | 6        | 6.30 |
| 88 PX 612 | 21"     | 7        | 6.87 |

## DELUXE ENCLOSED RACKS



Ruggedly constructed rack 16-gauge steel with 3/4" panel supports. Feature sturdy supports at the bottom so casters may be attached directly to base. Hinges and the door are louvered to provide excellent ventilation. The door hangs on strong, loose-joint hinges; is held closed by aluminum file-clip (latch) type snap-action catch. Unusually handsome appearance is achieved by rounded corners and lined chrome trim.

| Stock No.   | Mfr's Type | Size H.W.D.              | Panel Wt. Lbs. | NET EACH |
|-------------|------------|--------------------------|----------------|----------|
| 88 PZ 503-2 | CR-1774    | 42 1/2 x 17 1/2 x 3 1/2" | 36 1/2         | 90.44    |
| 88 PZ 500-2 | CR-1771    | 47 1/2 x 17 1/2 x 4 1/2" | 42             | 95.50    |
| 88 PZ 501-2 | CR-1772    | 66 1/2 x 17 1/2 x 6 1/2" | 61 1/2         | 122.62   |
| 88 PZ 502-2 | CR-1773    | 82 1/2 x 17 1/2 x 7 1/2" | 77             | 150.75   |
| 98 PZ 868-2 | CR-2072    | 66 1/2 x 22 1/2 x 6 1/2" | 61 1/2         | 150.57   |
| 98 PZ 869-2 | CR-2073    | 82 1/2 x 22 1/2 x 7 1/2" | 77             | 175.00   |

## DESK-TYPE RACKS



A strong chassis ideally suited for mounting heavy components. Perfect for use in mounting low and medium power transmitters, P.A. systems and other electronic equipment. Designed for use with standard 1 1/2" panels. No posed edges. With hardwired gray Hammertone finish.

| Stock No. | Mfr's Type | Panel Ht. | Overall Ht.     | Wt. Lbs. | NET EACH |
|-----------|------------|-----------|-----------------|----------|----------|
| 86 PU 879 | RR-1248    | 21"       | 24x20 1/2 x 12" | 15       | 8        |
| 86 PU 880 | RR-1248    | 28"       | 31x20 1/2 x 12" | 17       | 10       |

## CHASSIS MOUNTING BRACKETS



An excellent accessory for adding racks and cabinets to space needs. A rugged, top-gauge bracket formed of heavy-gauge steel. Cut away at the bottom to provide clearance for a standard 1 1/2" panel. No posed edges. For use with chassis. Av. wt., 3 lbs.

| Stock No. | Type   | Ht.    | Depth | Per Ft. |
|-----------|--------|--------|-------|---------|
| 86 P 219  | MB-458 | 6 1/2" | 8"    | 1.03    |
| 86 P 220  | MB-448 | 6 1/2" | 10"   | 1.37    |
| 86 P 218  | MB-448 | 6 1/2" | 11"   | 1.47    |
| 86 P 221  | MB-449 | 6 1/2" | 12"   | 1.74    |
| 86 P 224  | MB-460 | 6 1/2" | 13"   | 1.87    |
| 86 P 222  | MB-450 | 8 1/2" | 10"   | 1.93    |
| 86 P 223  | MB-451 | 8 1/2" | 13"   | 2.01    |

## UTILITY HANDLES



Strong handles for comfortable grip. Ideal for mounting on cabinets to afford portability. Made of tubular aluminum. Sh. wt. 2 oz.

| Stock No. | Type   | Length | Mtg. Ctr. | NET |
|-----------|--------|--------|-----------|-----|
| 86 P 849  | UH-704 | 5 1/2" | 4 1/2"    | 3   |
| 86 P 899  | UH-714 | 3 1/2" | 3 1/2"    | 2   |

## PLASTIC CASES AND PANELS



Molded black plastic cases and panels designed for test instrument mounting. Sturdily constructed to protect meter components. Cases have recessed meter bosses for flush mounting of panels. Pre-drilled for 3/4" tapping screws. Case walls are 1/8" thick.

| Stock No. | Size H.W.D.        | Wt. Lbs. | NET EACH |
|-----------|--------------------|----------|----------|
| 86 P 286  | 6 1/2 x 3 1/2 x 2" | 1 1/2    | 8        |
| 86 P 287  | 6 1/2 x 5 x 2 1/2" | 2        | 1.21     |

## MATCHING PANELS

| Stock No. | Size H.W.D. | Wt. Lbs. | NET EACH |
|-----------|-------------|----------|----------|
| 86 P 288  | 6x3 1/2"    | 1/2      | 1.31     |
| 86 P 289  | 6x3 1/2"    | 1        | 1.50     |



# ALLIED . . . your dependable source for Everything in TEST EQUIPMENT



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## Top Performing Test Equipment . . .

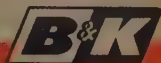
**EL 600 TUBE TESTER.** New, versatile tube tester. Fast, accurate,  
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**EL 700 TUBE TESTER.** New, obsolescence-proof, dynamic mutual  
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into B&K tube testers for fast, multiple socket testing plus  
elimination from obsolescence. Check tubes for shorts, grid emission,  
leakage and life—with lab accuracy. 4x12½x1¼". Wt., 2½ lbs.

| Stock No. | Type    | For Use With     | NET   |
|-----------|---------|------------------|-------|
| 17 F 210  | 610-500 | Model 500 Tester | 48.95 |
| 17 F 211  | 610-550 | Model 550 Tester | 48.95 |
| 17 F 209  | 610-650 | Model 650 Tester | 48.95 |



Model 700  
"Dyna-Quik"  
Dynamic Mutual  
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**NEW!**

Model 600 "Dyna-Quik"  
Emission Type Tube  
Tester . . . Fast, Accurate,  
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**DEL 1076 TELEVISION ANALYST**  
Combines miniature TV transmitter with  
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Uses small AC signal to measure transistor  
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Tests power transistors for gain and leakage  
current—permits accurate matching.  
Metered DC voltage aids in transistor radio  
servicing. 9x7x2½". For 105-125 v., 50-60  
cycle AC. Shpg. wt., 5 lbs.  
**87 F 221. No Money Down. NET. 68.55**



**NEW MODEL 360 "V-O-MATIC" VOM**  
Advance-design VOM. Easy to read—featu-  
res individual, full-size scale for each  
range. Only one scale is visible at a time!  
Scales are direct reading—no multiplying.  
Burnout-proof meter. Sensitivity: 20,000  
ohms/volt DC; 5000 ohms/volt AC. Ranges:  
AC and DC volts, 0.3-15-60-300-1000-6000;  
DC ma, 0-100; DC ma, 0.3-100-500; DC  
amps, 0-10; resistance, 0-1000-10,000 ohms,  
0-1-100 megohms. Accuracy: ±3% DC, ±5%  
AC, of full scale. 6½x8½x3½". With bat-  
teries, leads, extra scales for audio, db, P-P  
volts, capacity. Shpg. wt., 4½ lbs.  
**87 F 212. No Money Down. NET. 58.75**

### HA-SWEEP CIRCUIT ANALYZERS

**DEL 1070.** Circuit analyzer for  
trouble-shooting horizontal, vertical and  
problems in TV sets. Injects hori-  
zontal and vertical sync pulses, grid and  
drive signals into output transistors.  
Checks flybacks and yokes for  
aged turns, leakage, opens, continu-  
ity. Provides automatic 5 + boost, high-  
age indicator, and vertical yoke test  
signal. 9½x7x5". For 110-120 volts, 50-  
cycle AC. Wt., 10 lbs.  
**X 217. NET. . . . . 73.45**

**DEL A107.** A companion unit for ear-  
phone Analyst. Same as Model 1070  
except it takes signals from Model  
1070. 9½x7x5". Wt., 10 lbs.  
**X 219. NET. . . . . 53.85**



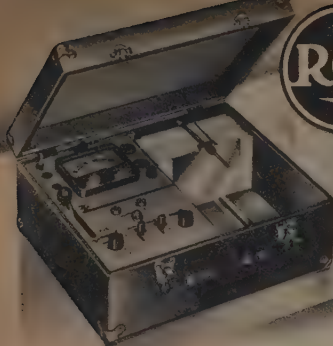
Model 1070  
"Dyna-Sweep"

### 440 CRT REJUVENATOR

Checks and rejuvenates color and black  
and white CRTs while in set. Detects  
opens, shorts, emission, cut-off voltage.  
Repairs shorts, opens; restores emission.  
Predicts tube life. Tests CRTs with  
1-12-v. filaments including 110° types.  
Checks each gun of color CRT separate-  
ly. Leatherette case, 5x7x11½". For  
105-125 v., 60 cycle AC. 8½ lbs.  
**87 FX 218. NET. . . . . 73.45**  
**MODEL C40 COLOR ADAPTER.** Adapts  
400, 350 for 110° and color CRTs. 1 lb.  
**87 F 279. NET. . . . . 9.75**  
**MODEL CR48 ADAPTER.** Adapts 400, 350  
for 2.34, 2.68, 8.4-volt, 110° CRTs. 1 lb.  
**87 F 216. NET. . . . . 4.85**



440 CRT  
Rejuvenator



# World-Renowned for Quality



## WT-110A AUTOMATIC TUBE TESTER

A real time-saver for testing all receiving tube types. You simply insert a pre-punched card into the tester—and the rest is automatic! Tests for transconductance, gas shorts and twin-tube balance. Easy-to-read meter indicates "RENEW—GOOD." Two gold-plated printed circuit boards set up a combination of 15 to 20 circuits which provide connections for up to 10 pins and 220 combinations of heater voltage. 287 pre-punched vinyl plastic cards are supplied with unit—plus master card for punching blanks, hand punch, 24 blank cards (for replacement or new tube types) and test card. In durable 7½x14½x17½" portable carrying case. For operation from 105-125 v., 60 cycle AC. Shpg. wt., 30 lbs.

- 87 FU 075. No Money Down. NET.....199.50
- 87 F 088. WG-324A Gas Tube Adapter. Permits testing gas type tubes with WT-110A. above. Shpg. wt., 10 oz. NET.....2.95
- 87 F 076. WG-325A Blank Cards. Set of 24. Wt., 1 lb. NET.....2.25
- 87 F 084. WG-337 Adapters. Four adapters for testing tubes with small 4, 5 and 6-pin bases as well as small and medium 7-pin bases. Shpg. wt., 5 oz. NET.....7.95
- 87 F 085. WG-338A Tube Socket Adapter. For testing 7-lead, in-line subminiature tubes. Shpg. wt., 2 oz. NET.....2.95
- 87 F 086. WG-339A Tube Socket Adapter. For testing 8-lead, circular subminiature tubes. Shpg. wt., 2 oz. NET.....3.50
- 87 F 099. WG-110AB Punch Card Booklet. Instructions for punching cards for over 1000 tube types. Shpg. wt., 6 oz. NET.....1.00



WR-70A



WR-99A

**WR-70A RF-IF-VF MARKER-ADDER.** For RF, IF and video sweep-alignment of black-and-white and color TV sets. Four differently shaped markers: positive peak, negative peak, positive and negative peaks (wide band), and positive and negative peaks (narrow band). Use with marker and sweep generators. Marker signal is added after sweep passes through receiver—eliminates distortion of marker or sweep curve. 0-60 db attenuation of IF sweep signal for IF or video alignment. With 4 coax cables for connecting to scope, sweep and marker generators, and input and output circuits of TV receiver under test. Size, 7½x10½x6½". For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 12 lbs.

- 87 FX 055. No Money Down. NET.....74.50

**WR-99A MARKER-GENERATOR.** Crystal-calibrated marker-generator for aligning FM and TV receivers or any other 10-260 mc equipment. Provides the necessary accuracy for color TV servicing. Crystal calibrator provides 240 check points at 1 or 10 mc intervals. Modulation frequencies: 1, 10, 4.5 mc, 600 cycles. Sound and picture carrier markers appear simultaneously. Output: 0.1 v., min. rms on all frequencies. Double-shielded oscillator, 10x13½x7½". For 105-125 v., 50-60 cycle AC. Shpg. wt., 18 lbs.

- 87 FX 069. No Money Down. NET.....242.50

**84 F 077. WG-289 HV Probe.** Extends DC range of VOM's and VTVM's to 50,000 v. Less Multiplier. 1 lb. NET.....7.15

**MULTIPLIERS.** For WG-289 & WG-290. 2 oz.  
 84 F 079. WG-206. 1090 meg. 1 NET  
 84 F 083. WG-210. 900 meg. 1 EA.....2.80

**87 F 071. WG-297 HV Probe.** For WV-77E VoltOhmyst kit. Same as WG-289, left, but has banana plugs. 1 lb. NET.....7.15

**87 F 092. WG-211 Multiplier.** 495-megohm multiplier resistor for WG-289 and WG-297 probes. Shpg. wt., 2 oz. NET.....2.80

**87 F 077. WG-299D AC-DC-Ohms Probe.** Replacement for use with RCA VoltOhmyst VTVM's. Wt., 1 lb. NET.....4.95

**87 F 052. WG-301A Crystal Diode Probe.** Slips on WG-299A, B or C. Extends RF range to 250 mc. Shpg. wt., 8 oz. NET 7.75

**WR-49B RF SIGNAL GENERATOR.** Covers 85 kc-30 mc in 6 ranges; all on fundamentals. Dial calibration is accurate within 1%. Incorporates built-in 400-cycle oscillator for internal or external modulation. Attenuator control of RF level; approximate range: 2000 to 1 Cathode-follower type RF output provides at least 0.05 and 0.01 v. rms at high and low connectors respectively. With shielded cable for RF or AF output. Size, 7½x10½x6". For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 10 lbs.  
 87 FX 079. No Money Down. NET.....79.50

**WR-69A TV-FM GENERATOR.** For visual alignment of both TV and FM receivers. Has preset switch positions for all VHF TV channels, FM broadcast band—plus TV video, chrominance and IF frequencies. VHF output is on fundamentals only. A precision vibrator capacitor provides exceptionally good linearity. Sweep width is continuously adjustable from 50 kc to 20 mc on IF/video and FM, and 50 kc to 12 mc on TV channels. IF/video output frequency continuously tunable from 50 kc to 5 mc—flat within 0.1 db per mc of sweep width. Incorporates blanking circuit. 10x13½x7½". With cables. For 105-125 v., 50-60 cycle AC. Shpg. wt., 17 lbs.  
 87 FX 070. No Money Down. NET.....295.00



WV-37B



WV-98B

Electronic Protection Against Burnout

Improved Accuracy of ±3%

**WV-37B BATTERY TESTER.** Highly dependable radio-battery tester. Accurately tests virtually all types of tube-portable and transistor-portable radio batteries. Checks each battery under its recommended load. Meter indicates battery condition as "REPLACE USABLE-GOOD"—shows percentage of rated output of battery. Leads and probes attached. 6½x5½x3½". Shpg. wt., 4 lbs.  
 87 F 097. No Money Down. NET.....24.95

**WV-98B SENIOR VOLTOHMYST.** A top-quality VTVM with a host of features. Incorporates easy-to-read, zero-center scale; electronic protection against burnout; rugged, 200-microamp meter movement; 1% precision multipliers; die-cast aluminum case; etc. Large 6½" meter has improved accuracy of ±3%. In 7 ranges per function—reads AC rms and DC to 1500 volts; resistance from 0.2 ohms to 1000 megohms. AC input impedance of 0.83 megohm and 70 mmf to 1.5 megohms and 60 mmf; 11-megohm DC input resistance. Has AC-DC-Ohms probe with built-in switch. With probe, shielded cable. For 105-125 v., 50-60 cycle AC. Shpg. wt., 7 lbs.

- 87 F 050. No Money Down. NET.....79.50
- 87 F 323. WV-98B(K) Kit. As above, but kit form. NET.....62.50

## OTHER RCA INSTRUMENTS

**NEW WA-44C AUDIO SIGNAL GENERATOR.** Sine and square wave output from 20 cps to 200 kc, ±1.5 db. Bridged-T oscillator. 7x10½x6½". For 105-125 v., 50-60 cycle AC. Shpg. wt., 12 lbs.

- 87 FX 071. No Money Down. NET.....98.50

**NEW WR-64A COLOR-BAR/DOT/CROSSHATCH GENERATOR.** For checking color TV receivers. Generates 10 bars of different colors simultaneously. Highly stable—no "jitter" or "crawl." 10x13½x7½". For 105-125 v., 60 cycle AC. Shpg. wt., 13 lbs.

- 87 FX 324. No Money Down. NET.....189.50

## VTVM AND VOM PROBES



# d Craftsmanship



**7E JR. VOLTOHMYST.** Ranges: resist-  
0-1000-10,000-100,000 ohms, 0-1-10-  
1000 megohms; AC rms v., 0-1.5-5-15-50-  
100-1500; AC P-P, 0-4-14-40-140-400-  
4000; DC, 0-1.5-5-15-50-150-500-1500  
accuracy:  $\pm 3\%$  on DC;  $\pm 5\%$  on AC  
onset:  $\pm 1/2$  db, 20 cps to 500 kc up to  
7.  $7\frac{1}{2} \times 5\frac{1}{2} \times 4\frac{1}{4}$ ". With probes, leads,  
actions. For 105-125 v., 50-60 cycle AC.  
wt. 5 lbs.

**089. NET. 43.95**  
**999. WV-77E(K) Kit. NET. 29.95**

**18A VOM.** 8 DC ranges: 0-0.25-1.0-2.5-  
15-100-5000 v.,  $\pm 3\%$  accuracy, 6  
ranges: 0-2.5-10-50-250-1000-5000 v.,  
2 accuracy, 20,000 ohms/volt input on  
5000 ohms/volt on AC. Response on  
0 and 50 v. ranges:  $\pm 1/2$  db, 10 cps to  
100 cps. 4-AF output ranges: 0-2.5-10-50-  
1000 cps,  $\pm 5$  accuracy. Reads 0-20 megohms  
ranges, 8 DC current ranges: 0-50  $\mu$ a;  
0-100-500 ma; 0-10 amps. Reads AF  
resistance of DC,  $6\frac{1}{2} \times 5\frac{1}{2} \times 3\frac{1}{2}$ ". With  
series, leads, Wt., 5 lbs.

**095. NET. 43.95**  
**096. WV-38A(K) Kit. NET. 29.95**  
**100. WG-270A Case.** Laminated vinyl  
ing case for WV-38A. 1 lb. NET. 4.95



## ALLIED'S CREDIT FUND PLAN

Allied now offers you increased buy-  
ing power and lower-than-ever monthly  
payments. See page 360 for details.

## MODEL WO-33A 3" OSCILLOSCOPE

Low-cost, 3" oscilloscope ideally suited for  
both black and white and color TV servic-  
ing. Features dual-band response. Wide-  
band provides response from 5.5 cps to 5.5  
mc; narrow-band, 20 cps to 150 kc. Built-in  
peak-to-peak voltage calibrator. Narrow-  
band sensitivity is .02 volt peak-to-peak per  
inch (.003 volt rms). Wideband is 0.6 volt  
peak-to-peak per inch (0.1 volt rms). Saw-  
tooth range is 15 cps to 75 kc. Sync circuit  
will lock-in at frequencies up to 4.5 mc. Vertical  
input impedance 90 mmf and 1 meg  
direct, 50 mmf and 1 meg at connector, 10  
mmf and 10 meg in low-capacity position.  
3AQP1 CRT,  $8\frac{3}{4} \times 6\frac{1}{2} \times 10\frac{1}{4}$ ". For 105-125  
v., 50-60 cycle AC. 15 lbs.

**87 FU 093. NET. 129.95**  
**87 FU 094. WO-33A(K). Same as above,**  
but in kit form. NET. 79.95



## WG-91A 5" OSCILLOSCOPE

5" wide-band scope for black-and-white and  
color TV servicing. Features: Dual-band  
response; wide-band flat within  $\pm 1$  db from  
10 cps to 4.5 mc; narrow-band flat within  
 $-6$  db from 10 cps to 1.5 mc; and voltage-  
calibrated, frequency-compensated 3-to-1  
step attenuator. Vertical polarity reversal  
switch. Built-in calibration voltage. Plus  
or minus internal sync. Sensitivity, 0.05 v.  
p-p/inch (0.018 v. rms) in narrow-band  
position and 0.150 v. p-p/inch (0.053 v. rms)  
in wide-band position. Vertical input 75  
mmf and 1 meg direct and 11 mmf and 10  
meg low-capacity position, with WG-300B  
probe supplied,  $13\frac{1}{2} \times 9 \times 16\frac{1}{2}$ ". For 105-125  
v., 50-60 cycle AC. Shpg. wt., 33 lbs.

**84 FU 049. NET. 239.50**  
**WG-302A DEMODULATOR PROBE.** Use with  
WG-300B to extend scope range to 250 mc.  
Input, 2.2 mmf. Shpg. wt., 1 lb.  
**87 F 060. NET. 8.50**



Model 648R



Model  
605



Model 600

**DYNAMIC TUBE TESTER.** Provides fast,  
checking of receiving tubes. Complete  
amic test under load. Zig-zag roll chart  
inates unnecessary twirling. Features:  
separate heater voltages; silicon rectifier  
er supply; variable sensitivity shorts  
—tests leakage from 250K to 2 meg-  
s. With automatic line voltage indicator,  
test switch,  $16\frac{1}{2} \times 14\frac{1}{2} \times 6\frac{1}{2}$ ". For 110-  
v., 60 cycle AC. Shpg. wt., 21 lbs.

**FU 130. NET. 127.35**

**605 AUDIO SINE/SQUARE WAVE OS-  
ATOR.** Precision sine/square wave audio  
erator. Features Schmitt "trigger" cir-  
; push-button range selection. Covers  
ps to 200 kc,  $\pm 1$  db, in 4 ranges, 0-5 v.  
output on sine wave; 20 mv to 7 v. P-P  
quare wave. Sine wave distortion, less  
n. 1%. Hum level, better than  $-50$  db,  
uracy, 3% or 1 cycle—whichever is  
ster.  $11\frac{1}{2} \times 7\frac{1}{2} \times 13$ ". For 110-120 v., 50-60  
AC. Shpg. wt., 21 lbs.

**FU 471. NET. 127.35**

**NEW 600 LAB OSCILLOSCOPE.** Compact lab  
scope featuring choice of wide-band or high-  
sensitivity operation. Vertical amplifier re-  
sponse,  $\pm 1$  db, 10 cps to 4.9 mc—usable to  
10 mc. 2-range vertical sensitivity from 20  
mv/inch. Horizontal amplifier response,  
 $\pm 2$  db, 10 cps to 200 kc. Linear sawtooth  
sweep, 10 cps to 100 kc. Camera mounting  
studs, variable sweep expansion, retrace  
blanking, etc.  $15\frac{1}{2} \times 9\frac{1}{2} \times 13$ ". For 105-125 v.,  
50-60 cycle AC. Shpg. wt., 29 lbs.

**87 FU 472. NET. 328.30**

**NEW 658 DYNAMIC TUBE TESTER.** A deluxe  
tester featuring time-saving push-button se-  
quence switching. 231 heater combinations  
from 0.6 to 120 v. for high versatility. Makes  
true rectifier and grid leakage tests. Has  
ample current capacity for testing even high  
current, space-charge grid tubes. Dynamic  
output principle lets you read only the AC  
component on plate of tube. With data for  
testing over 1,200 types.  $21\frac{1}{2} \times 13\frac{1}{2} \times 7$ ". For  
105-125 v., 50-60 cycle AC. 26 lbs.

**87 FU 473. NET. 186.15**

Lab-Quality Scope Performance  
in a Compact, Lightweight Unit  
—Highly Stable and Accurate



Model 658

One Order to Allied Fills All Your Test Equipment Needs



260-III VOM  
DC Sensitivity,  
20,000 Ohms/Volt



270 VOM  
For Laboratory  
Accuracy

## FAMOUS 260 AND 270 AC-DC VOLT-OHM-MILLIAMMETERS

**MODEL 260—SERIES III VOM.** Its low cost and time-tested dependability have made it one of the world's most popular VOMs. Features easy-to-read 2-color scales, 5000 ohms/v. AC sensitivity, rugged printed circuit, polarity reversing switch, full-wave bridge rectifier, and response to 500,000 cps. Ranges: DC mv, 0-250; AC and DC v., 0-2.5-10-50-250-1000-5000; AF output v., 0-2.5-10-50-250; DC  $\mu$ a, 0-50; DC ma, 0-1-10-100-500; DC amps, 0-10; resistance, 0-20 meg in 3 ranges; db, -20 to +50 in 4 ranges. Size, 7x5 $\frac{1}{4}$ x3 $\frac{1}{8}$ ". Supplied complete with case, batteries and test leads. Shpg. wt., 5 lbs.

87 F 111. No Money Down. NET..... 43.95

87 F 112. Model 260RT. As above, but in roll-top case. 9x6 $\frac{1}{2}$ x4 $\frac{3}{4}$ ". 9 lbs. NET..... 49.95

**MODEL 270 VOM.** A deluxe version of Model 260 (above), this laboratory-type instrument will give identical readings days or even weeks apart. Has all the 260's features plus mirrored scale, knife-edge pointer, extra-high stability and 1 $\frac{1}{2}$ % accuracy. 7x5 $\frac{1}{4}$ x3 $\frac{1}{8}$ ". Supplied complete with case, batteries and test leads. Shpg. wt., 5 lbs.

87 F 123. No Money Down. NET..... 59.95

87 F 149. Model 270RT. As above, but in roll-top case. 9x6 $\frac{1}{2}$ x4 $\frac{3}{4}$ ". 9 lbs. NET..... 65.95

## ACCESSORIES FOR SIMPSON 260 & 270 VOMs

| Stock No. | Type | Description                               | For Models    | Lbs.            | NET   |
|-----------|------|-------------------------------------------|---------------|-----------------|-------|
| 87 F 124  | 0247 | High-voltage DC probe; 25 KV range.       | 260-III, 270  | $\frac{1}{2}$   | 11.50 |
| 87 F 115  | 0248 | High-voltage DC probe; 50 KV range.       | 260-III, 270  | $\frac{1}{2}$   | 12.50 |
| 87 F 106  | 8375 | Leads; alligator clips, L terminals.      | 260-II        | $\frac{1}{2}$   | 1.75  |
| 87 F 116  | 7500 | Leads; banana plugs, alligator clip.      | 260-III       | 1               | 2.10  |
| 84 F 721  | 4236 | Ever-Rody leather carrying case.          | 260, 270, 303 | 2               | 9.75  |
| 84 F 782  | 1818 | As above, but standard leather.           | 260, 270      | 2               | 8.50  |
| 87 F 561  | 402  | Adapter case; parts for 50 $\mu$ a range. | 260-II        | 1 $\frac{1}{2}$ | 3.95  |



## COMPACT, ALL-PURPOSE METERS

**MODEL 372 OHMMETER.** Wide-range ohmmeter. 3" meter. Basic movement has 85- $\mu$ a sensitivity. Ranges: 0-500-5000-50,000-500,000 ohms; 0-5, 0-50 megohms. With batteries, leads. 5 $\frac{1}{2}$ x3x2 $\frac{1}{2}$ ". 3 lbs.

84 F 796. No Money Down. NET 29.95

**MODEL 362 LOW-OHMMETER.** Reads 0.1-25 ohms. 5 $\frac{1}{2}$ x3x2 $\frac{1}{2}$ ". Leads, 3 lbs.

87 F 107. No Money Down. NET 24.95

**MODEL 373 DC MILLIAMMETER.** 0-1.5-10-25-50-100-250-1000 ma. 5 $\frac{1}{2}$ x3x2 $\frac{1}{2}$ ". 3 lbs.

87 F 117. No Money Down. NET 21.95

**MODEL 374 DC MICROAMMETER.** 0-50-100-250-500-1000  $\mu$ a. 5 $\frac{1}{2}$ x3x2 $\frac{1}{2}$ ". 3 lbs.

87 F 118. No Money Down. NET 24.95

**MODEL 375 DC AMMETER.** 0-1-2.15-5-10-25 amps. 5 $\frac{1}{2}$ x3x2 $\frac{1}{2}$ ". 3 lbs.

87 F 119. No Money Down. NET 21.95

**MODEL 370 AC AMMETER.** Ranges: 0-1-2.5-10-25 amperes. Built-in current transformer. 3" meter. 5 $\frac{1}{2}$ x3x2 $\frac{1}{2}$ ". Less leads. For 60 cycle AC measurements only. 3 lbs.

84 F 794. No Money Down. NET 22.95

**MODEL 355 MIDGETESTER.** Miniature, highly accurate VOM, 10,000 ohm/volt sensitivity on AC and DC, 100  $\mu$ a movement. Ranges: AC, DC v., 0-3-12-60-300-1200; 0-100-1000 ohms. 0-1-10 mega. Styrene case, 4 $\frac{1}{2}$ x2 $\frac{1}{2}$ x1 $\frac{1}{2}$ ". Batteries, leads. 2 lbs.

84 F 741. Type 6355 Leather Case. For above. Has belt loop. 3 oz. NET..... 3.95

84 F 734. No Money Down. NET 34.95

**84 F 741. Type 6355 Leather Case.** For above. Has belt loop. 3 oz. NET..... 3.95

**87 F 108. Type 8600 Spare Test Leads.** For 355. Wt., 1 lb. NET..... 1.85

**MODEL 240 HAMMETER.** Sensitivity, 1000 ohms/v on AC and DC, DC volts, 0-3000; AC volts, 0-3000; DC ma, 0-750; ohms, 0-3000-3000-000. Bakelite case, 5 $\frac{1}{2}$ x3x2 $\frac{1}{2}$ ". Battery, leads. Wt., 3 lbs.

84 F 787. No Money Down. NET 31.95

**MODEL 390 VOLT-AMP-WATTMETER.** Measures power consumption of any 60 cycle AC unit. Ranges: AC volts, 0-150 and 0-300; amps, 0-3 and 0-15; watts, 0-300, 0-600, 0-1500 and 0-3000. 3" meter. 5 $\frac{1}{2}$ x3x2 $\frac{1}{2}$ ". Break-in plug, leads. 4 lbs.

84 F 788. No Money Down. NET 48.95

## HIGHLY VERSATILE "ADD-A-TESTERS"



Convert Your VOM  
Into 8 New Testers!



Just Plug In  
Adapter for  
Complete Unit

Self-Powered and  
Self-Contained

Turn your VOM into 8 different testers with these plug-in adapters. For any 260 or 270 made since 1947. 4 $\frac{1}{2}$ x5 $\frac{1}{4}$ x3 $\frac{1}{8}$ ". 2 lbs.

87 F 553. Model 650 Transistor Tester. 0-100  $\mu$ a Ico, 3 beta ranges. NET..... 26.95

87 F 554. Model 651 DC VTVM. 0.5, 1, 2.5, 5, 10, 25, 50, 100, 250, 500 v. ranges. Imped., 10 megs. NET..... 32.95

87 F 555. Model 652 Temperature Tester. -50° to +250°F in 2 ranges. NET..... 38.95

87 F 556. Model 653 AC Ammeter. .25, 1, 2.5, 12.5, 25 a.; 50-3000 cps. NET..... 18.95

87 F 557. Model 654 Audio Wattmeter. 10  $\mu$ w to 100 w.; 4/8/16/600 ohms. NET. 18.95

87 F 558. Model 655 Microvolt Attenuator. 2.5-250,000  $\mu$ v, decade steps. NET..... 18.95

87 F 559. 656 Battery Tester. NET..... 19.95

87 F 208. Model 661 DC Ammeter. 0.1, 2.5, 5, 10, 25 amp ranges. NET..... 17.95



303

## DELUXE VTVMs



311

**MODEL 303 VTVM.** Ranges: AC/DC v. 0-1-2-12-60-300-1200; AC volts, 0-1-2-12-60 flat to 100 kc; resistance, 0-1000-100,000 ohms and 0-1-10-1000 mega; db, -20 to +63 in 5 ranges. Large 4 $\frac{1}{2}$ " dial. Bakelite case, 7x5 $\frac{1}{4}$ x3 $\frac{1}{8}$ ". With DC and AC ohm probes; less RF probe (below). For 110-120 volts, 60 cycle AC. 6 $\frac{1}{2}$  lbs.

84 F 712. No Money Down. NET 73.95

84 F 725. Model 303RT. As above, but in roll-top case. 8 lbs. NET..... 82.95

84 F 715. HV Probe. Extends DC range to 30 KV. 1 lb. NET..... 11.95

84 F 716. RF Probe. Measures RF volts. Wt., 1 lb. NET..... 8.75

**MODEL 311 VTVM.** Highly sensitive VTVM. Ranges: AC/DC v., 0-1.5-5-15-50-150-500-1500. Resistance: 0-1K-10K-100K ohms and 0-1-10-100-1000 mega. AF voltage: 0-1.5-15-50-150-500-1500, 30 cps-100 cps  $\pm$  5%. P-P: 0-4-14-40-140-400-1400-4000  $\mu$ v. 4 $\frac{1}{2}$ " meter. With DC-AC/ohms probe ground lead, 7 $\frac{1}{2}$ x5 $\frac{1}{4}$ x4 $\frac{3}{4}$ ". For 105-125 v. 50-60 cycle AC. 8 lbs.

87 FX 121. No Money Down. NET 69.95

87 F 122. Type 0732 HV Probe. Extends DC to 30,000 v. 1 lb. NET..... 11.75

87 F 131. Type 0731 High-Frequency Probe. Shpg. wt., 1 lb. NET..... 11.50





**715 AC VTVM.** Sensitive general unit with high input impedance 1 meg @ 1 kc, multi-voltage ranges, response of 10 cps to 400 kc,  $\pm 1$  ranges: AC rms v., 0-.01-.03-1-3-10-30-100; db, -52 to -152 dbm in 10 dbm; 1 mv in 600 ohms. Accuracy, FS,  $5\frac{1}{2}\% \times 7\frac{1}{2} \times 3$ . For 110-125 v., 50-c AC. Shpg. wt., 5 lbs.  
**105. NET. 68.55**

**1000 TUBE TESTER.** Highly accurate conductance type. Tests all receiving under conditions simulating actual as  $4\frac{1}{2}$ " meter, multi-position toggles percentage of rated plate conductance, and exact resistance values of and interelement leakage. Special reduces chances of tube damage.  $5\frac{1}{2} \times 6 \times 7$ . For 105-125 v., 50-60 cycle shpg. wt., 19 lbs.  
**723. NET. 186.15**

**MODEL 466 HANDISCOPE.** A portable general-purpose 5" scope. Vertical response:  $\pm 1$  db from 15 cps to 100 kc; 6 db down at 250 kc; usable to 1 mc. Vertical sensitivity: 30 rms mv/inch max. Input: 0.1 meg, 40 mmf ( $\times 1$  atten. setting); 0.5 meg, 35 mmf ( $\times 100$  atten. setting). 15 cps-80 kc sweep. Max. input, 400 v. peak.  $12\frac{1}{2} \times 8 \times 16\frac{1}{4}$ ". For 110-120 v., 50-60 cyc. AC. 24 lbs.  
**87 FU 113. NET. 146.95**

**MODEL 458 COLORSCOPE.** (Not illus.) 7" dual-bandwidth scope for black-white and color TV. Horizontal sweep to 200 kc. Intensity modulation input. Graph screen. Freq. response: wideband,  $\pm 1$  db to 4.5 mc; narrow-band,  $\pm 2$  db, 10 cps to 300 kc. Sensitivity: wideband, 30 mv rms/in.; narrow-band, 20 mv rms/in.  $16\frac{1}{2} \times 11 \times 14\frac{1}{2}$ ". 115 v., 50-60 cyc. AC. 38 lbs.  
**84 FU 631. NET. 244.95**  
**87 F 104.** Type 0740 Probe. Voltage doubler, for above. Wt.,  $1\frac{1}{2}$  lbs. NET. 14.36

## MODEL 383A CAPACOHMETER

- Measures Leakage Resistance
- Indicates Capacitance in Mmf/Mfd
- Detects Borderline Capacitors

Time-saving, highly dependable "in-or-out-of-circuit" capacitor leakage tester. Indicates leakage and measures capacitance of paper, mica or ceramic capacitors. No unsoldering is necessary, even when capacitor is wired in parallel with a resistor. Pulse test quickly detects marginal capacitors.  $4\frac{1}{2}$ " meter. Indicates leakage in ohms—checks for direct short, open, or intermittent conditions in all types of by-pass, coupling and blocking capacitors in a wide capacitance range—from 10 mmf to 10 mfd. Also detects leaks in wiring, sockets, etc. All tests made under load.  $8\frac{3}{4} \times 11\frac{1}{2} \times 8\frac{1}{2}$ ". With leads. For 105-125 v., 60 cycle AC. 12 lbs.  
**84 FX 630. NET. 88.15**

## CORNELL-DUBILIER TEST EQUIPMENT



BF-60



BF-90

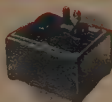


BF-70



BF-80

accurate  
measured,  
substitute  
capacitances



CDA

## CAPACITOR DECADES

ed at 600 VDC and 220 VAC. May used singly or in groups of 2 or more. CDB-3 and CDC-3,  $\pm 3\%$  tol.; CDB-5,  $\pm 5\%$ . CDA-5 has mica capacitors; others, oil-paper types. With instruction chart.  $3\frac{3}{4} \times 5 \times 3\frac{1}{2}$ ". 4 lbs.

| Cap. No. | Mfr's Type | Range Mfd  | Mfd/Step | NET EACH |
|----------|------------|------------|----------|----------|
| 452      | CDA-5      | .0001-.011 | .0001    | 14.20    |
| 453      | CDB-5      | .01-1.1    | .01      | 14.20    |
| 455      | CDB-3      | .01-1.1    | .01      | 16.35    |
| 454      | CDC-5      | 1.0-10     | 1.0      | 24.65    |
| 456      | CDC-3      | 1.0-10     | 1.0      | 27.25    |

## RESISTANCE DECADES

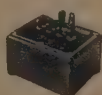
(Not illus.). Each decade permits selection of 110 resistance values. Series selected, they cover from 1 ohm to 1,110 ohms in 1-ohm steps. Have rotary switches with 11 positions.  $5 \times 3 \times 3$ ". Wt.,  $1\frac{1}{4}$  lbs.

| Cap. No. | Mfr's Type | Range Ohms       | Ohms/Step | NET EACH |
|----------|------------|------------------|-----------|----------|
| 615      | RDA        | 1-110            | 1         | 15.35    |
| 616      | RDB        | 100-11,000       | 100       | 15.35    |
| 617      | RDC        | 10,000-1,100,000 | 10,000    | 15.65    |

**BF-60 CAPACITOR-RESISTOR BRIDGE.** Checks for opens, shorts, intermittents, capacity and power factor of electrolytics as well as insulation resistance of papers, micas and ceramics. Measures capacity between wires and shielding, transformer windings, etc. Ranges: 10 mmf-.005 mfd; .001-5 mfd; 1-50 mfd; 20-1000 mfd; 100-50,000 ohms and 10,000 ohms to 5 megs.  $5\frac{1}{2} \times 7 \times 10$ ". For 110-125 v., 50-60 cycle AC. Wt. 10 lbs.  
**84 FX 457. NET. 50.81**

**BF-90 CAPACITOR CHECKER.** Check capacitors without removing them from the circuit. "Magic-Eye" indicates condition. 60 cycle test for direct or intermittent short; 20 mc test for open or intermittent. Checks capacitors from 30 mmf to 2000 mfd for open, short or intermittent; from .1 mfd to 2000 mfd for shorts.  $7 \times 10 \times 5\frac{1}{2}$ ". With leads. For 110-125 v., 60 cycle AC. 8 lbs.  
**84 FX 619. NET. 40.91**

**MODEL GDE CAPACITOR SUBSTITUTION BOX.** This reliable electrolytic substitution box selects 15 combinations of capacitances, ranging from 10 to 150 mfd in 10-mfd steps. Max., 450 VDC. Size,  $3\frac{1}{2} \times 5 \times 3$ ". Shpg. wt.,  $1\frac{1}{4}$  lbs.  
**87 F 034. NET. 13.92**



**BF-70 CAPACITANCE-RESISTANCE ANALYZER.** Accurately checks capacitors and resistors. Wien bridge circuit assures permanent accuracy; readings not affected by line voltage variations. Measures capacity from .00001 to 2000 mfd in 4 ranges. Checks power factor of electrolytics from 0 to 50%. Indicates insulation resistance of paper, mica, and ceramic capacitors. Built-in VOM for leakage measurement. VOM ranges: DC volts, 0-15-150-750; DC ma, 0-1.5-15-75; DC resistance, 2.5-2500 ohms, 250-250,000 ohms, 250,000 ohms to 25 megs. Metal case,  $11 \times 10 \times 5\frac{1}{2}$ ". For 110-125 v., 50-60 cycle AC. Wt., 11 lbs.  
**84 FX 613. NET. 84.87**

**BF-80 FLYBACK-YOKE CHECKER.** For rapidly locating defects in flyback transformers and yokes. Employs an oscillator circuit incorporating a 6V6 tube. Extremely sensitive—detects short-circuited vacuum tube elements and windings. Will detect a single shorted turn. Also indicates open circuits in transformers, yokes, coils and switches.  $4\frac{1}{2}$ " microammeter; 50 microamp full-scale sensitivity. Meter scale indicates "GOOD" and "REPLACE"; scale is also numbered for quantitative readings. Sturdy metal case,  $5\frac{1}{2} \times 7 \times 10$ ". Recessed carrying handle. With test leads. For 110-125 v., 60 cycle AC. Shpg. wt.,  $9\frac{1}{2}$  lbs.  
**84 FX 618. NET. 55.08**



**NEW!**



**CUT CORNERS  
IN TROUBLE-  
SHOOTING  
TRANSISTOR  
CIRCUITS**

## MODEL 890 TRANSISTOR TESTER

New Dynamic Beta, in-circuit transistor tester permits measurements of AC Beta, *in-circuit* or *out*—with an accuracy of  $\pm 5\%$ ! Also measures in-circuit input resistance, base-emitter circuit impedance, and collector current ( $I_c$ ); as well as out-of-circuit  $I_c$  and  $I_{be}$ . Uses unique, new method for neutralizing circuit impedance, before tests are made—thereby eliminating many of the inaccuracies inherent in other methods. In steel carrying case,  $6\frac{1}{2} \times 10\frac{1}{4} \times 9"$ . Complete with test cable and instruction book. Less batteries (below). Shpg. wt. 8 lbs.

87FZ 173. No Money Down. NET 129.50

53 J 095. Type K-15 Burgess Battery. 1 required. Shpg. wt. 2 oz. EACH. .... 1.23

53 J 029. Type 1 Burgess Battery. 4 required. Shpg. wt. 2 oz. EACH. .... 14c

## MODEL 6000 TUBE TESTER

- 1-2-3 Push Button Operation Saves Time
- Speedy Transconductance Readings
- Provides Highly Sensitive Leakage Test

Designed for accurate high-speed testing. Unique roll chart design groups the most commonly used tube types separately for faster testing. Sensitive 5" meter has 0-1000-6000-15,000 micromhos and "REPLACE—?—GOOD" ranges. Checks all receiving tube types that are normally encountered. Easy-action push buttons provide instant indication of dynamic mutual conductance and gas content. Has automatic short test—5 neon lights indicate shorts or leakage between elements and show which elements are shorted. Features plug-in master socket panel, replaceable to guard against obsolescence; constant line voltage indication for accurate readings.

In leatherette case with detachable lid.  $16\frac{1}{2} \times 7\frac{1}{2} \times 11\frac{1}{4}"$ . For 110-120 volts. 50-60 cycle AC. Shpg. wt. 21 lbs.

87FU 181. No Money Down. NET 197.50

CR TESTER ADAPTER. Tests gas, grid control, shorts, cathode emission; also rejuvenates. For all tube testers on this page except 6000. Shpg. wt. 1 lb.

84F 184. NET. .... 15.75

## MODEL 800 TUBE TESTER

- Fast, Accurate Operation
- Checks Transistors and Subminiature Tube Types

Lightweight, portable dynamic mutual conductance tube tester. Weighs only 16 pounds—ideal for professional radio and TV servicemen to use for both on-location and shop bench jobs. Tests receiving tubes under simulated operating conditions; also on out-of-circuit transistors and diodes. Includes tests for latest miniature tubes; also tests 600-ma series-string types.

An improved version of the popular 6 series testers, the 800 features efficient inter-element leakage and short tests without direct meter readings. Easily detects hard-to-locate weak tubes. Accurate grid current test detects even the slightest amount of gas. The easy-to-read triple-scale 5" lucid case meter has ranges of 0-3000-6000-15,000 micromhos and "REPLACE—?—GOOD" roll chart groups most commonly-used tubes separately—makes it easy to quickly locate desired type. In red leatherette case.

Cover is movable for easy access. (HWD):  $16\frac{1}{2} \times 7\frac{1}{2} \times 11\frac{1}{4}"$ . For 110-120 volts. 50-60 cycle AC. Shpg. wt. 21 lbs.

87FU 187. No Money Down. NET 169.50



## MODEL 539B TUBE TESTER

- Has 6 Micromho Ranges
- Choice of 4 AC Voltage Signals

Laboratory-type dynamic mutual conductance, portable tube tester. Measures mutual conductance under simulated operating conditions. Tests all receiving and voltage regulator tubes plus diodes.

Uses 3 separate meters. Micromhometer has 8 ranges: 60,000-30,000-15,000-6000-3000-600—Rectifier Diode Range—VR Range. Separate AC meter for line voltage check; separate DC voltmeter for grid bias readings. Choice of 4 AC signal voltages: 25, .5, 1, 2.5 v. Normal and low plate and screen voltages. Reads leakage to 50 megohms. Tests for shorts, gas, noise; gives probable tube life. Measures plate and heater current. Roll chart includes all latest types; new charts periodically released as new tubes become available. In black leatherette carrying case.  $16\frac{1}{2} \times 18\frac{1}{2} \times 1\frac{1}{2}"$ . For 110-125 v., 50-60 cycle AC. Shpg. wt. 39 lbs.

84FU 608. NET. .... 439.00



## MODEL 752 TUBE TESTER

- Highly Accurate
- For Quick, Easy Testing

A portable unit featuring high accuracy and fast, simple operation. Tests over 2000 tube types plus germanium diodes. Special circuit tests VR tubes to manufacturers' specifications. Tests both halves of dual tubes with single setting of selector switches. Push-button switch selects half to be tested—permits quick, easy comparisons.

Mutual conductance value is found by merely noting meter indication and multiplier setting—meter indicates value from 0-30,000 in 5 ranges. Simplified panel reduces set-up time and chance of error. Illuminated meter and roll chart. Choice of two plate and screen voltages and 4 AC signal voltages. Built-in pin straighteners. Special design avoids damage to tubes through improper settings. Black leatherette case. Size,  $18\frac{1}{2} \times 16\frac{1}{2} \times 7\frac{1}{2}"$ . For 105-125 v., 50-60 cycle AC. Shpg. wt. 26 lbs.

87FU 192. NET. .... 298.00



Model 675A



Model 810

## MODEL 675A WIDE-BAND SCOPE

Sensitive, 5" oscilloscope for color TV as well as FM and AM. Features 4.5-m bandwidth and 20 ms. mv./inch vertical sensitivity. Vertical response within 3 db from cps to 4.5 mc. Voltage calibrator. Horizontal response within 3 db from 1 cps to 45 kc—sensitivity is 250 rms mv./inch. Sweep frequency, 10 cps to 100 kc. Intensity modulation input,  $13\frac{1}{2} \times 16"$ . For 110-120 v., 400 cycle AC. Wt. 43 lbs.

84FU 634. NET. .... 299.95

## 810 TRANSISTOR-RADIO TESTER

Combination RF-IF AM signal generator, single-tone audio generator, RF-IF and signal tracer, and transistor tester. Checks IF stages from 200-575 kc; RF stages from 550-1600 kc. Built-in speaker. Signal generator output from 200-575 kc and 550-1600 kc; also 600-cycle audio. With probe, feed. Portable steel case,  $9\frac{1}{2} \times 11\frac{1}{2} \times 7"$ . For 105-125 v., 50-70 cycle AC. Wt. 15 lbs.

87FU 188. NET. .... 138.00





**EL 470 VACUUM TUBE VOLT-METER.** Reli-  
lightweight VTVM featuring a 7"  
and a single-unit AC-ohms-DC probe.  
Res.: DC, 0-1.5-5-15-50-150-500-1500  
; AC (rms), 0-1.5-5-15-50-150-500-1500  
Peak-to-peak, 0.2-4-14-40-140-400-  
4000 volts, Resistance, 0-1000-10,000-  
100 ohms; 0-1-10-100-1000 megohms.  
onse, 30 cps to 2.5 mc. Input resist-  
13.3 megohms. High-sensitivity tran-  
sistor bias test (0 to 0.5 v. DC range). Size,  
7x4". Supplied with probe and leads,  
operation from 105-125 v., 50-60 cycle  
Shpg. wt., 8 lbs.  
\$189. No Money Down. NET. 94.75



**MODEL 209A VACUUM TUBE VOLT-METER.**  
Professional VTVM. Zero-center 9" meter.  
Flat from 30 cps to 200 mc. High input  
imp., 10, 12 megs; AC, 12 megs shunted by  
7 mfc (3 megs on 1200-v. scale). Ranges:  
AC-DC v., 0-3-12-30-120-300-1200; DC ma,  
0.3-12-30-120-300-1200; res., 1 ohm to 10-  
000 megs; cap., 1 mmf to 1000 mfd; ind., 50  
mh to 100 hys.; db, -20 to +25; AC P-P,  
0-3-12-30-120-300. 1 1/2"x1 1/4"x7". With  
probes, leads. For 105-125 v., 50-60 cycle  
AC. Shpg. wt., 25 lbs.  
84 FU 136. NET. 157.00  
84 F 149. PR-30KVA Probe. Extends 209A's  
range to 30 KV DC. 1 1/2 lbs. NET. 19.95

Includes Provisions for  
Measuring Inductance  
and Capacitance

**HICKOK**



**The VOM  
That's Burn-Out  
Proof!**

Protected By  
Unique Cut-Out  
& Fuse System

**MODEL 455A VOM.** Has unique overload cir-  
cuit cut-out and fuse system which protects  
meter and components against burn-out.  
Single switch selects function and range.  
Sensitivity: 20,000 ohms-per-volt AC-DC.  
Ranges: AC-DC v., 0-3-15-60-150-600-1200;  
resistance, 0-100 megs in 4 ranges—5 ohms  
center scale; current, 0-50  $\mu$ a, 0-1-10-100-  
1000 ma, 0-10 amps. Size, 8 1/2"x5 7/8"x3". Sup-  
plied complete with test leads. Less batteries.  
Uses 1 Burgess U20 and 1 No. 2 battery.  
Shpg. wt., 5 1/2 lbs.  
84 F 609. No Money Down. NET. 79.50  
84 F 635. Carrying Case. For above. Dura-  
ble neoprene. Wt., 1/2 lb. NET. 10.00



Tone Modulator

**MILLEN**

Grid Dip Meter



Accurate Capacitor  
Measuring Bridge

**SPRAGUE**



Compact, Lightweight,  
Completely Portable

**JERROLD**

**DEL 90651 GRID DIP METER.** 2" meter; 7"  
reading-scales and a 0-100 scale. With  
for 1.7 to 300 mc. 7x3 1/4"x3 1/4". For  
120 v., 50-60 cycle AC. Terminals for  
every operation. Wt., 3 1/2 lbs.  
\$962. No Money Down. NET. 61.50

w-Frequency Grid Dip Meter Coils, 4 oz.

| No.   | Type  | Range KC | EACH |
|-------|-------|----------|------|
| F 966 | 46702 | 925-2000 |      |
| F 967 | 46703 | 500-1050 | 6.72 |
| F 968 | 46704 | 325-600  |      |

**DEL 90751 TONE MODULATOR.** For 90651.  
re. Uses Mallory TR-132R mercury bat-  
(not supplied). 2 1/4"x1 1/4"x1 1/4". 5 oz.  
\$313. NET. 15.00

**DEL 46721 2 1/2 FT. EXTENSION PROBE.**  
le with link terminations, one set in  
re. For 220 kc to 75 mc coils. Wt., 6 oz.  
\$996. NET. 1.95

## CHICAGO INDUSTRIAL VOM'S

**DEL 312 VOM.** Pocket-size, 6-function  
M with 2" meter. Reads: DC volts, 0-25-  
25-250, AC volts, 0-25-50-125-250, DC  
0-50, AC ma, 0-50. Resistance, 100K  
scale, with 2400 ohms half-scale reading.  
capacitance, 0.5-15 mfd (chart furnished).  
meter operates from AC power—no re-  
sistors required. Size, 3 1/4"x2 1/4"x1 1/4". Less s-  
AC. Shpg. wt., 1 1/4 lbs.  
\$306. NET. 8.82

**DEL 431-AN VOM.** Has 860  $\mu$ a meter  
element. Ranges: AC-DC volts, 0-15-30-  
300-1500-3000 (at 1000 ohms/v.); DC  
ent, 0-1.5-150 ma and 0-7.5 amps; re-  
sistance, 0-10,000-100,000 ohms, 0-1 meg.  
minimum case with hinged, removable  
er—6 1/4"x3 1/4"x5 1/4". Aluminum panel.  
cells, strap, leads. 3 1/4 lbs.  
\$310. No Money Down. NET. 24.01

**DEL 431-A—LESS COVER.** 3 1/2 lbs.  
\$309. NET. 21.07



Model 312  
VOM



Model 431-AN VOM

## CALEX MODEL 603L TUBE TESTER

- Increases Tube Sales
- Sign Illuminated Front & Rear
- Styling Fits Modern Stores

Put this good-looking self-service  
tube tester in your store and gain  
another important source of income  
—a "natural" for high traffic loca-  
tions. Simple operation lets custom-  
ers do their own checking. 123-  
socket panel accepts virtually all  
TV and radio tubes—also tests vi-  
brators and fuses. Has built-in roll  
chart; giant "Good-Bad" meter.  
Automatically adjusts to line volt-  
age. Attractive beige and white cabi-  
net matches decor of modern self-  
service type retail stores. Stores 500  
tubes. Size, 56 1/2"x20 1/2"x23 1/2". U.L.  
Approved. For 105-125 v., 50-60  
cycle AC. 115 lbs.  
87 FZ 196. NET. 159.95



### POPULAR 630 SERIES PORTABLE VOMS



630



630-NA



630-PL

An excellent selection of extremely accurate test instruments for use in lab, shop and service work—wherever precision and reliability are all important.

### NEW! MODEL 850 VTVM

- Highly Sensitive 200- $\mu$ a Movement
- Giant, Easy-to-Read 7" Illuminated Scale
- Electrically Protected Against Overload

High-quality, wide-range vacuum tube volt-meter for lab and service shop use. Large, easy-to-read meter has 7" dial scale. Sensitive 200  $\mu$ a meter movement is protected against accidental overload. Features a 0.5 volt full scale range on DC for checking low voltage circuits; zero center on all DC scales for FM discriminator alignment; single-unit probe has switch for DC or AC ohms. Frequency response is from 15 cps to 30 mc. Ranges: DC volts (11 megohms input resistance), 0-0.5-1.5-5-15-50-150-500-1500; AC RMS volts (0.83 megohms minimum input impedance), 0-1.5-5-15-50-150-500-1500; AC P-P volts, 0-1.4-40-140-400-1400-4000; resistance, 0-1000-10,000-100,000 ohms and 0-1-10-100-1000 megohms. Molded case has aluminum panel.  $6\frac{1}{2} \times 4\frac{1}{2} \times 3\frac{1}{2}$ ". With 48" leads and battery. For 110-120 v., 50-60 cycle AC. 6 lbs.

87 F 348. No Money Down. NET. 79.50

### MINIATURE VOM

Compact and Easy to Use



310 VOM

310 VOM with 10 Adapter



10 Adapter

310 MINIATURE VOM. Ideal for on-the-spot testing. Self-shielded for checking in strong magnetic fields. DC volts: 0-3-12-60-300-1200 at 20K ohms/v. AC volts: 0-3-12-60-300-1200 at 5K ohms/v. DC  $\mu$ a: 0-600; DC ma, 0-6-60-600. Ohms: 0-20K-200K; megs: 0-2-20. Accuracy: 3% DC,  $4\frac{1}{2}\%$  AC  $1\frac{1}{2}\%$ . With leads, batteries. Wt., 1 lb.

84 FC 674. No Money Down. NET 37.50

84 F 675. Model 369 Leather Case. For Model 310 only. Wt., 6 oz. NET. 3.20

10 AMMETER ADAPTER. For above or any VOM with 3 v. AC at 5K ohms/v. scale. Clamp-on jaws for reading 0-6-12-30-60-120-300 amps AC without breaking circuit or insulation.  $4\frac{1}{2} \times 3\frac{1}{2} \times 1\frac{1}{2}$ ".  $2\frac{1}{2}$  lbs.

87 F 152. NET. 15.50

66 F 590. Model 379 Leather Case. Holds Models 310 and 10. 8 oz. NET. 6.00

101 LINE SEPARATOR. Splits AC cords for readings with 10, above—extends ranges to 0-0.3-0.6-1.2-1.5-3-6-12-30 amps. Shpg. wt., 6 oz.

87 F 153. NET. 6.00

690-A TRANSISTOR TESTER. For low and medium-power PNP and NPN types. Calibrate and Gain buttons; 2 tri-color scales. Leakage: 0-600  $\mu$ a, base to coll. DC Beta, 5 to infinity. Socket and leads for any base. With batteries.  $6\frac{1}{2} \times 2\frac{1}{2}$ ". Wt., 3 lbs.

84 F 549. No Money Down. NET. 32.50

84 F 561. 629 Carrying Case for Above. Black leather. Shpg. wt., 1 lb. NET. 7.20

666-R VOM. 1K ohm/v.;  $\pm 3\%$  accuracy. DC/AC v. 0-10-50-250-1K-5K. DC ma, 0-10-100; DC amps, 0-1; ohms, 0-3K-300K; megs, 0-3; output v., 0-10-50-250-1K. Battery, leads,  $5\frac{1}{2} \times 3\frac{1}{2} \times 2\frac{1}{2}$ ". 4 lbs.

84 F 557. No Money Down. NET. 32.50

631 VTVM-VOM. Batt.-operated. VTVM, 0-1.2-6-30-120 v. DC; 11 megs input imp. VOM: DC v., 0-3-12-60-300-12K  $\pm 20$ K ohms/v.; AC and audio volts, 0-3-12-60-300-12K  $\pm 5$ K ohms/v.; DC  $\mu$ a, 0-60; DC ma, 0-1.2-12-120-1200  $\pm 250$  mv; DC amps, 0-12  $\pm 250$  mv; db, -20 to +63; ohms, 0-1500-15K; megs, 0-1.5-150. Batts. leads,  $3\frac{1}{2} \times 5\frac{1}{2} \times 7\frac{1}{2}$ ". Wt., 5 lbs.

84 F 546. No Money Down. NET. 69.50

666-HM VOM. (Not illus.) 3" meter; 1K ohms/v. AC/DC v., 0-10-100-250-1000-5000; DC ma, 0-100-500; ohms, 0-2000-400,000, 3% accuracy. With batteries and 50" leads.  $5\frac{1}{2} \times 3\frac{1}{2} \times 2\frac{1}{2}$ ". Wt., 4 lbs.

84 F 555. No Money Down. NET. 29.50

### VOM ACCESSORIES

HIGH-VOLTAGE PROBES. For 630, 630-A and 631 meters. Fully insulated.  $1\frac{1}{4}$ " probe with 48" leads. Av. wt., 8 oz.

| Stock No. | Type    | Volts       | EACH  |
|-----------|---------|-------------|-------|
| 87 F 133  | T-79-68 | 0-12 000 DC | 14.50 |
| 87 F 134  | T-79-69 | 0-12 000 AC |       |
| 84 F 544  | T-79-70 | 0-30 000 DC |       |
| 87 F 135  | T-79-71 | 0-30 000 AC |       |

611 AND 311 LEADS. For readings in cramped locations. Type 611 allows use of Model 10 adapter, at left, with any VOM having 3-VAC scale at 5000 ohms/volt (such as Types 630, 630-A, 630-NA, 630-PL and 631 meters, above). Type 311 permits separating Model 10 from 310 VOM. Shpg. wt., 1 lb.

87 F 347. Type 611 Leads. NET. 2.10

87 F 174. Type 311 Leads. NET. 2.10

### ALLIED'S CREDIT FUND PLAN

Open an Allied Credit Fund Account today. Up to 50% more buying power and 24 months to pay. Better equipment means more profits for you.



# Other Selected Test Instruments by...

**TRIPLET**



2590



3432-A



MODEL 3414 TUBE TESTER

- Modified Plate Conductance Tester
- Highly Sensitive Neon Short Test
- Flexible for New Tube Types
- Easy-to-Read, 3-Color 4" Meter

Extremely versatile tube tester. Permits easy, rapid testing of all receiving type tubes, plus gas-filled rectifiers and ballast tubes. Filament voltages from 0.65 to 117 v. Provides complete flexibility for new tube setups. Features include: modified plate conductance for closer correlation to tube characteristics; improved neon shorts test indicator; variable leakage test; greater circuit sensitivity for the new tube types with low cathode current.

Burned-out tubes show up immediately without waiting for filament to heat. Large, 4" tri-colored meter. Variable-leakage test indicates leakage from approximately 0.3 megs to over 3 megs. Sturdy "Counter-Portable" type wood case is attractively covered with dark gray leatherette, with hinged removable cover, chrome hardware and feet. Size, 11½x15½x6½". For 110-120 v., 50-60 cycle AC. Shpg. wt., 13 lbs.

87 FX 154. No Money Down. NET 89.50

T-2247-BV CRT ADAPTER. (Not Illustrated.) For use with Model 3414 and Model 3444 testers. Permits testing television picture tubes in operation—without removing them from receiver. Shpg. wt., 1 lb.

84 F 539. NET 7.20

**2590 TRANSISTOR TESTER.** Highly test instrument for checking all trans under simulated operating conditions. Tests beta,  $I_{CBO}$  and  $I_{CEO}$  for both n-p-n and p-n-p types. Checks transistors for leakage, diodes for leakage, and current. Operation is extremely simple and straightforward—no roll chart. Transistor socket plus 26" extension permit use with any basing arrangement. Only information needed is the type; unit is always up-to-date. Reading meter has 5 scales in black, green. In gray leatherette covered with rubber feet and luggage-type handle. Size, 11½x15½x6½". For 105-125 v., 50-60 C. Shpg. wt., 9 lbs.

965. No Money Down. NET 54.50

**3432-A SIGNAL GENERATOR.** Quality generator for use in AM-FM radio, black-and-white and color TV servicing. The follower output provides high stability acting as buffer to oscillator. Copsested shielded circuits. Covers range 50 kc to 110 mc (220 mc using harmonic). Large, 6¾" dial, has 7 directly read 160° scales.

Also for internal modulation or audio output control provides variable audio or AF output from jacks. In modulation variable from 0-100% at dc. RF attenuator provides both direct fine control of RF output. With cable. 15½x11½x6½". For 110-120 v., 50-60 cycle AC. 12 lbs.

677. No Money Down. NET 109.50

MODEL 3444 TUBE ANALYZER

This true dynamic mutual-conductance tube analyzer is a complete laboratory-type instrument in a portable case. Measures true  $G_m$  without any extra compensating factors, using proper DC potentials, 5 kc signal source and vacuum tube microammeter. Self-checking circuit, checks accuracy of  $G_m$  readings on tester. Also checks plate current cutoff, plots characteristic curves, tests for gas, checks rectifiers under load, etc. Gray leatherette case, 15½x11½x6¾". (See CG adapter below and T-2247-BV, right.) For 110-120 v., 60 cycle AC. Wt., 24 lbs.

83 FU 964. NET 279.50

87 F 197. "CG" ADAPTER. Extends range of 3444 tester above to include special tube types. Shpg. wt., 2½ lbs. NET 39.50

## "RAMID AMPROBES"—"SNAP-AROUND" METERS



**MODEL RS-3.** Multi-range volt-ammeter-ohmmeter. Press trigger to clamp jaws and let them close on conductor—no need to break circuits. Over insulation to read current. Rotary scale for fast, accurate read-resistance, 5 current, 3 voltage ranges. Reads 0-5-15-40-100-300-0-150-300-600 v. AC. 25 ohms mid-scale. Has tiny battery attachment for resistance tests. With battery, leads, leather case. 2 lbs.

76. No Money Down. NET 52.50

**MODEL RS-1.** Reads 0-5-15-40-100 amps and 0-150-600 volts, takes conductors up to 1½". Scale length, 2½". Length, 18". Complete with test leads and shpg. wt., 2 lbs.

68. NET 39.85

**MODEL A-40 ENERGIZER.** For use as a plug to divide 2-conductor at outlet (convenient when Amprobes for current measurement). Increases ammeter sensitivity to 10X. Test jacks for measurement under load. Energizer applied complete with case. Wt., 8 oz.

489. NET 3.75

**AMPROBE JUNIORS.** Small Amprobe "snap-around" meters. Take ½" conductors. Scale length, 1.8"; overall length, 4¾". With leads, less case (below). Wt., 1 lb.

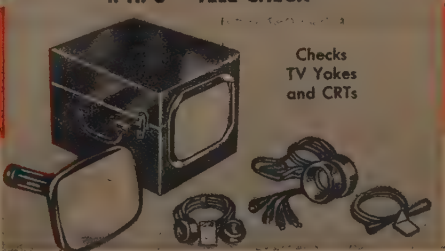
| Stock No. | Model | Amps. | Volts     |
|-----------|-------|-------|-----------|
| 84 F 369  | Y10   | 0-10  | 0-125-250 |
| 84 F 373  | Y25   | 0-25  | 0-125-250 |
| 84 F 374  | Y50   | 0-50  | 0-125-250 |
| 84 F 379  | Y100  | 0-100 | 0-125-250 |
| 84 F 897  | Y525  | 0-25  | 0-150-600 |
| 84 F 898  | Y550  | 0-50  | 0-150-600 |
| 84 F 899  | Y500  | 0-100 | 0-150-600 |

NET EACH 1.85

MODEL CR-1 LEATHER CASE. For Juniors. Shpg. wt., 12 oz.

84 F 488. NET 2.85

## I. H. 8" "TELE-CHECK"



Checks TV Yokes and CRTs

**MODEL CR-118.** A portable CRT substitution unit. Saves time in locating CRT or yoke troubles. Self-focusing; no ion trap needed. For electrostatic or electromagnetic focusing TV sets with 52", 66", 70", or 90" yokes. Universal yoke is interchangeable with yoke of set. Horizontal and vertical lines on front plate help in making accurate picture adjustment. Complete with carrying case, 6-ft. CRT socket extension leads, anode and yoke connecting leads, face plate and 8XP4, 12x 11½x15". Shpg. wt., 12 lbs.

87 FX 297. No Money Down. NET 44.75

**87 FX 193. MODEL CR-168.** Same as CR-118 above, but with 8YP4 and 110" universal yoke. 12 lbs. NET 54.50

**87 FX 198. MODEL CR-167.** Same as CR-168 above, less tube. Accepts either 8XP4 or 8YP4. 9½ lbs. NET 28.50

**87 FX 194. MODEL CR-165.** Same as CR-168 above, plus universal test speaker. Shpg. wt., 13 lbs. NET 64.50



## 960 TRANSISTOR & DIODE TESTER

Expertly engineered portable transistor and crystal diode tester. Measures Icbo, gain, leakage, shorts, etc., on low, medium and high-power transistors of PNP and NPN types, as well as newest tetrode transistors. Direct reading in terms of true collector current on  $5\frac{1}{2}$ , 100-microamp meter. Five Icbo ranges; 17 collector potential steps from 0.5 v. DC to 100 v. DC. Five separate injection currents for low, medium and high-power types. Reliable check of emitter-collector leakage current for accurate gain tests. 17 DC voltages for reverse current tests of crystal diodes; separate forward tests. High-speed roll chart. Circuit for future semiconductor.  $10\frac{1}{2} \times 18 \times \frac{1}{4}$ ". For 110-120 v., 50-60 cycle AC. 15 lbs.

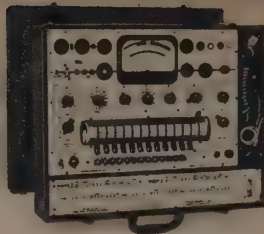
87 FU 029. NET. 107.75

## PICTURE TUBE ADAPTERS

For Precision tube testers. 1 lb.

84 F 492. PTA. For CRT's to 90". NET 9.75

87 F 031. PAA. For 110" CRT's. NET 6.12



## 10-60 "ELECTRONAMIC" TESTER

Versatile tube and transistor checker provides comprehensive tests for Icbo, gain, leakage, shorts, etc., on all transistors. Has 22 collector potential steps from 0.5 v. to 160 v. DC. Offers complete testing of all modern tube types including sensitive gas test. Checks TV picture tubes with PTA and PAA adapters (left). Special circuit prevents tube damage.  $15 \times 20 \times 7$ ". For 110-120 v., 50-60 cycle AC. 26 lbs.

87 FU 030. NET. 232.21

## 10-40 TUBE TESTER

(Not illus.) Physically and electrically like 10-60 above—but less special circuit for testing transistors and crystal diodes. Overall tube performance tests are based on mutual conductance, amplification factor, plate current, etc. In sturdy carrying case with tool compartment and removable cover. Size,  $15 \times 20 \times 7$ ". For 110-120 volts, 60 cycle AC. Shpg. wt., 25 lbs.

87 FU 032. NET. 172.43



## 640 TUBE TESTER

Cathode conductance type—checks merit leakage and shorts in TV, FM and AM tubes, foreign tubes, etc. Tests each section of multi-section tubes separately, and CRT with adapters (far left). 24-position rotary switch for filament voltages from  $\frac{1}{4}$  to 11 v. Has 7 and 9-pin straighteners,  $\frac{1}{4}$  meter accurate to  $\pm 2\%$ , speedy roll-chart 10-lever element selector system. Wit. leatherette case,  $10\frac{1}{2} \times 18 \times \frac{1}{4}$ ". For 110-120 v., 50-60 cycle AC. Wt., 16 lbs.

87 FU 027. NET. 88.15

## 660 TUBE & TRANSISTOR TESTER

(Not illus.) Same features as Model 640 Tube Tester above, but also measures Icbo, beta, shorts and leakage on all RF, audio power and tetrode transistors—both NPN and PNP types; tests crystal diodes for forward and reverse current. 16 lbs.

87 FU 028. NET. 132.23

## TOP-PERFORMING SIGNAL AND BAR GENERATORS



E-200C



E-400



E-440

## E-200C SIGNAL-MARKER GENERATOR

Highly sensitive, deluxe signal-marker generator for AM, FM and TV alignment. For use with E-400 below, or any other high-quality sweep signal generator. Calibrated on each band against laboratory crystal standards, 1% accuracy on 10 easy-to-read ranges. Frequency coverage: 88 kc to 440 mc, to 110 mc on fundamentals. Direct-reading  $6\frac{1}{2}$ " dial has 0-1000 vernier scale. Outputs: unmodulated RF; 400-cycle modulated RF; externally modulated RF; and 400-cycle sine wave output. Supplies 0-50 volts AVC-AGC voltage. Dual RF attenuators. With coax cable. "Lo-Hi" connectors. manual.  $11\frac{1}{2} \times 13 \times \frac{3}{8}$ ". For 110-120 v., 50-60 cycle AC. Wt., 17 lbs.

87 FU 000. NET. 107.75

## E-440 COLOR BAR GENERATOR

Efficient color-bar generator produces 10 equally spaced color-bars which contain all the essential signal information required for adjustment of color TV receivers. RF output—fixed at channel 3—is crystal-controlled for maximum stability; includes 61.25 mc picture carrier, 65.75 mc sound carrier. Video output, 0 to 8 volts peak-to-peak; includes 15.75 kc horizontal sync pulse, 3563.795 kc crystal-controlled color sub-carrier, luminance signals. 300-ohm balanced output circuit. Has metering switch and jacks for setting sub-carrier and sync voltages to specified levels with a VTVM.  $11\frac{1}{2} \times 13 \times \frac{3}{8}$ ". With crystals. Leads. For 110-120 v., 60 cycle AC. Wt., 20 lbs.

87 FU 022. NET. 259.65

## E-420 DELUXE DOT-BAR GENERATOR

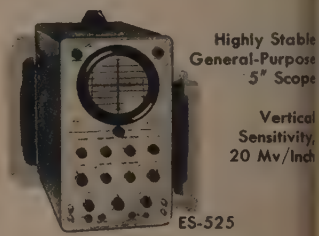
(Not illus.) Versatile white-dot and bar generator for color TV adjustment. Ideal unit for checking color convergence and vertical and horizontal linearity. Has separate controls to adjust the number and thickness of both vertical and horizontal bars. Provides direct video and modulated TV channel outputs. Has RF channel selector for channels 2 to 6. Generates: White dots, vertical and horizontal bars and cross-hatch pattern. Number and size of dots can be varied. In rugged steel cabinet; aluminum panel. With cables.  $11\frac{1}{2} \times 13 \times \frac{3}{8}$ ". For 110-120 volt, 60 cycle AC. 19 lbs.

87 FU 021. NET. 172.43

## E-400 SWEEP SIGNAL GENERATOR

Deluxe portable sweep generator for television and FM servicing. Frequency range is 3-900 mc, to 240 mc on fundamental beat. Narrow and wide-band sweep—frequency widths: 0-1 mc and 0-15 mc. Built-in baseline reference. Self-contained multiple crystal marker-calibrator. Supplied with 2 crystals (2 mc and 4.5 mc). Special socket accommodates 4 crystals. Full vision,  $\frac{6}{16}$  inch dial. Phasing control. Internal retrace blanking circuit simplifies alignment—eliminates return traces. With test cables, 2 crystals.  $11\frac{1}{2} \times 13 \times \frac{3}{8}$ ". For 110-120 volts, 50-60 cycle AC. Wt., 24 lbs.

87 FU 001. NET. 191.05



ES-525

## ES-525 5" OSCILLOSCOPE

Extremely stable and reliable 5" general purpose scope incorporating the latest in circuitry and design. Highly suited to industrial testing, laboratory applications and radio-TV servicing—a complete instrument for accurate visual circuit analysis.

Push-pull vertical amplifier has response 3 db from 10 cps to 500 kc; 6 db to 700 kc. Push-pull horizontal amplifier has response of 3 db from 10 cps to 150 kc; sensitivity 60 mv/inch. Internal linear sweep is 10 cps to 100 kc with trace blanking; as low as 2 cps with external capacitor.

Also has "Z" axis modulation input; direct reading peak-to-peak voltage calibrator built-in 60 cps sine sweep phasing control, etc. In blue-gray, heavy-gauge steel cabinet.  $14\frac{1}{2} \times 8\frac{1}{2} \times 18\frac{1}{2}$ ". For 110-120 v., 60 cycle AC. Shpg. wt., 31 lbs.

87 FU 036. NET. 193.99

## ES-550B DELUXE 5" SCOPE

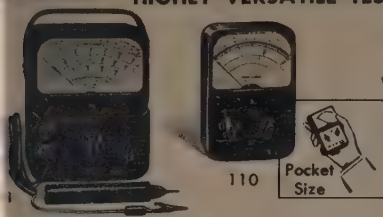
(Not illus.) For lab work and servicing, including color TV; offers a 5-mc bandwidth. Push-pull vertical amplifier has 10 mv/inch sensitivity; response within 1 db, 10 cps to 3.5 mc (3 db at 5 mc). Push-pull horizontal amplifier has 100 mv/inch sensitivity; response within 1 db, 10 cps to 1 mc (3 db at 2 mc). Sweep frequency, 10 cycles to 100 kc also 30 and 7875 cycles synchronized sweep. Negative, positive internal sync. Vert. pattern reversal switching. For 110-120 v., 60 cycle AC.  $14\frac{1}{2} \times 8\frac{1}{2} \times 18\frac{1}{2}$ ". 47 lbs.

87 FU 002. NET. 269.45

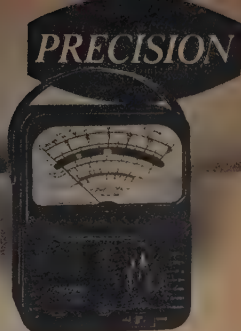


# Laboratory-Type Accuracy

## HIGHLY VERSATILE TEST EQUIPMENT



98-MCP  
DELUXE  
VTVM



**MODEL 88 VTVM**  
compact wide-range VTVM for lab and action line. Has large,  $5\frac{1}{4}"$  200  $\mu$  A,  $\pm 2\%$  accuracy. Features polarity switch and zero-center DC scales in 6 ranges. Ranges: AC and DC v., 0-12-60-300-1200; resistance, 0-1000-10 ohms, 0-1-100-1000 megohms, 267 $\frac{1}{2}$  megohms. P-P AC, 0-3.2-16-32-160-3200 v.  $7\frac{1}{2} \times 5\frac{1}{4} \times 3\frac{1}{2}"$ . With battery and e. For operation from 110-120 v., 50-60 AC. Wt., 3 lbs.

680. No Money Down. NET... 88.15

**MODEL 110 MULTIMETER**  
compact size VOM with full-range performance. 20,000 ohms per volt DC; 5000 ohms per volt AC. Ranges: AC and DC voltage, 0-30-150-600-3000 v.; DC current, 0-30  $\mu$ A and 0-6-60-600 ma; resistance, 20-200,000 ohms and 0-20 megohms; db., to  $+71$  (6 ranges).  $3\frac{1}{2}"$  meter has 50 divisions,  $\pm 2\%$  accuracy. 1% shunts multipliers. With leads, batteries.  $5\frac{1}{4} \times 1\frac{1}{4} \times 1\frac{1}{4}"$ . Shpg. wt., 3 lbs.

023. No Money Down. NET. 35.23

**MODEL 98-MCP DELUXE VTVM**  
Deluxe, wide-range, laboratory-type VTVM with specially designed P-P circuit. Has easy-to-read 7" meter with 200  $\mu$ A sensitivity; accuracy  $\pm 2\%$ . Ranges: Zero-center DC. AC rms and DC volts, 0-1.2-6-12-60-300-1200. P-P AC volts, 0-3.2-16-32-160-300-3200. Zero-center DC input resistance, 26.6 megohms. Resistance, 0-1000-10,000 ohms; 0-1-100-1000 megohms. DC current, 0-300 microamperes; 0-1.2-6-30-120-600 ma; 0-1.2-12 amps. 6 db ranges,  $-20$  to  $+63$  db. Metal cabinet,  $11\frac{1}{2} \times 13 \times 6\frac{1}{4}"$ . With 3-way probe. For 110-120 volts, 60 cycle VAC. Shpg. wt., 18 lbs.

87 FU 014. No Money Down. NET 134.21

**MODEL TV-8 SUPER-HIGH-VOLTAGE PROBE.**  
For Model 88 or 98-MCP VTVM. Extends DC range to 60,000 v. Wt., 2 lbs.

84 F 681. NET..... 15.63

**MODEL RF-10A HF PROBE.** For 98-MCP. Extends range to 300 mc. 2 lbs.

84 F 419. NET..... 15.63

**MODEL 120 MULTI-RANGE VOM**  
Sensitive VOM with 61 ranges, 1% resistors,  $\pm 2\%$  full-scale accuracy, mirrored scale and polarity reversing switch. Ranges: AC, +DC, -DC, output v., 0-0.3-1.2-3-12-60-300-600-1200-6000 with 5000 ohms per volt on AC and 20,000 ohms per volt on DC; DC, 0-60-300  $\mu$ A, 0-1.2-12-120-600 ma, 0-12 amps; 0-200-2000-200,000 ohms, 0-2-20 megohms; 8 db ranges,  $-20$  to  $+77.5\frac{1}{4}"$  meter. With batteries and leads. Size,  $7\frac{1}{2} \times 5\frac{1}{4} \times 3\frac{1}{2}"$ . Shpg. wt., 5 lbs.

84 F 490. No Money Down. NET. 44.05

**87 F 080. Model 120M.** As above, with  $\frac{1}{2}\%$  multiplier resistors and 1% meter. Shpg. wt., 5 lbs. No Money Down. NET... 54.83

**84 F 496. Model LC-3 "Eveready" Case.** For 120 and 120M. 3 lbs. NET..... 10.29

**84 F 495. Model TV-28 HV Safety Test Probe.** For 120 and 120M. Extends DC range to 30,000 v. 2 lbs. NET..... 15.63

**87 F 020. Model ST-1 Retractable Stand.** For 88, 120, 120M. 1 lb. NET..... 98 c

## SELECTED POPULAR TEST INSTRUMENTS

### RAMID

Quality  
R-C  
Bridge

MODEL RC-1

Tests Resistors and Capacitors



### WESTON

20,000  
Ohms/Volt  
DC Sensitivity

980 MARK II  
ANALYZER



high quality bridge can easily pay for itself in time saved. Tests for opens and shorts; supplies 0-500 v. DC for testing circuit breakdown. Tests leakage of capacitors, papers, and electrolytics—has ammeter to check leakage of electrolytics to a transistor circuitry. Tests capacitors from 10 mmf-2000 mfd; resistance 0.5 ohms-2000 megohms. Finds reactance ratio between any two capacitors—inductors, resistors; turns ratio of transformer windings between .05:1 and 1:1. Power factor, 0 to 60% on capacitors .1 mfd to 2000 mfd. Capacitor test ranges are variable to 500 v. DC in 17 steps. With case and carrying handle. Size,  $7\frac{1}{2} \times 5\frac{1}{4} \times 3\frac{1}{2}"$ . For operation from 110-120 v., 60 cycle AC. Shpg. wt., 11 lbs.

EX 450. No Money Down. NET 36.06

### PRECISION 202 SIGNAL TRACER

all-visual tracer. 3-stage preamp has feedback circuit with feedback; additional gain of 400 for scope or VTVM; 2 cps to 300 kc to scope output or "magic eye." Noise test with applied breakdown voltage. Wattmeter, 25-300 mW. With audio probe, less RF probe.  $7\frac{1}{2} \times 10\frac{1}{2} \times 6\frac{1}{2}"$ . Built-in speaker. For operation from 110-120 v., 60-cycle AC. Shpg. wt., 11 lbs.

EX 197. No Money Down. NET 58.75

EL B 300-MC RF PROBE. Wt., 1 lb.

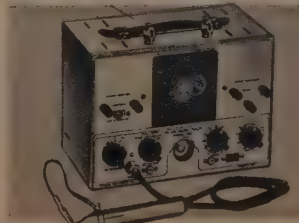
258. NET..... 7.35

An excellent "thin-line" VOM featuring single-knob, function-range selector; magnetic and electrostatic shielding. Accuracy is 2% on DC; 3% on AC. Scale length, 4.63". Ranges: AC v. (1000 ohms/volt), 40-160-400-1600; DC v. (20,000 ohms/volt), 0-1.6-8-40-160-400-800-4000; DC current, 0-80  $\mu$ A and 0-1.6-8-80-800 ma; resistance, 0-1000-100,000 ohms and 0-1-10 megohms—center scale 25. Reads db from  $-15$  to  $+54$  in 6 ranges. Has fused resistance ranges and transit switch that damps movement. With leads. Less batteries. Case,  $7\frac{1}{2} \times 6\frac{1}{4} \times 3\frac{1}{2}"$ . Shpg. wt., 3 lbs.

87 F 427. NET..... 49.50

**MODEL 177-97 COVER AND STAND.** Meter cover with 4-way meter stand. For use with above. Shpg. wt., 1 lb.

87 F 428. NET..... 5.50



## PRECISION DECADE BOXES



1203

1205

**MODEL 1203 RESISTANCE DECADE.** Highly accurate unit with 3 dials for supplying resistances from 0 to 999 ohms in one-half steps. Excellent for lab standards, bridge ratio arms, etc. Accuracy  $\pm 0.1\%$  except one-ohm units,  $\pm 0.15\%$ . Max. current ratings marked adjacent to each dial. Uses selected alloys, ceramic forms and high-temperature aging for high stability. Insulated jack-top posts have std.  $\frac{3}{4}"$  spacing. Temp. coefficient less than  $\pm 0.002\%$ /degree C.  $1\frac{1}{2} \times 4\frac{1}{2} \times 5\frac{1}{4}"$ . 5 lbs.

87 F 039. No Money Down. NET. 73.45

**MODEL 1204.** Same as above, but with 4 dials for 0 to 9999 ohms. Wt., 6 lbs.

87 F 038. No Money Down. NET. 88.15

**MODEL 1205.** Same as Model 1203, but with 5 dials for resistances from 0 to 99,999 ohms.  $1\frac{1}{2} \times 4\frac{1}{2} \times 5\frac{1}{4}"$ . Wt.,  $7\frac{1}{2}$  lbs.

87 F 037. No Money Down. NET. 107.75

**NEW 1303 CAPACITANCE DECADE.** (Not illus.) Range, .001 to 1.11 mfd; 3 decade units in steps of .001, .01 and 0.1 mfd. Max. v., 400 v. peak or DC. Accuracy,  $\pm 1\%$ .  $1\frac{1}{2} \times 4\frac{1}{2} \times 5\frac{1}{4}"$ . Shpg. wt., 6 lbs.

87 F 040. No Money Down. NET. 88.15

### CONTINUITY CHECKER

MODELS 55-10. Tests tube filaments, fuses, pilot lamps, windings, sockets, etc.  $5\frac{1}{2} \times 3\frac{1}{2} \times 1\frac{1}{2}"$ . Wt., 1 lb.

87 F 026. NET..... 7.79



Test Instruments Are Available on Allied's New Credit Fund Plan

**NEW!**

Model  
TR-110

Analyzes Transistor  
Circuit Troubles in Minutes

# **NEW MODEL TR-110 "TRANSI-MASTER"**

Versatile, battery-powered transistor tester that also serves as a signal tracer, voltmeter, battery tester and milliammeter.

"Transi-Probe" tests transistors in-circuit with AC gain check—clip-on leads permit fast out-of-circuit DC gain and leakage checks; also directly reads current gain (beta) and tests diode F/B ratios. 2000 cps oscillator plus RF-IF harmonic generator allow fast signal tracing. Has 0-12 v. scale for battery tests under load; 0-50 ma scale reads current drain—aids in alignment.

Mirror in removable cover reflects opposite side of PC boards. With leads, set-up chart, batteries. 8x7 $\frac{1}{2}$ x3", 6 lbs.

83 F 990. No Money Down. NET. .48.51

# **NEW TC-114 "MIGHTY-MITE" SR.**

New version of the famous TC-109 tube tester. Tests over 1600 tubes—including foreign and Five-Star types, nuvistors, compactrons, novars, and 10-pin types.

Checks leakage and cathode emission; offers complete, automatic short tests. Checks rectifiers from 50-150 ma and power-amplifier tubes from 15-35 ma—all other types are checked at their rated current. Grid leakage sensitivity exceeds 100 megohms.

Illuminated meter is protected by current-limiting circuit. Has socket for testing CRTs. Steel carrying case. 9 $\frac{1}{2}$ x8 $\frac{3}{4}$ x3 $\frac{1}{2}$ ". For 110-120 v., 50-60 cycle AC. 7 lbs.

87 F 371. No Money Down. NET. .66.15

**NEW!** A VTVM and a VOM—  
in One Compact Unit

# **SM-112 VTVM-VOM "SERVICEMASTER"**

Two test instruments in one package—a VOM for convenience and portability—a VTVM for high-accuracy work. Features: a single test prod for ultra-simple operation; special indicators to show scale in use; 1% precision resistors; giant 6" 200  $\mu$ a meter.

AC-DC volts: 0-3-10-30-100-300-1000. P-P v.: 0-2800 in 6 ranges. Accuracy: DC,  $\pm 3\%$  full scale; AC,  $\pm 5\%$ . Response (on first 4 ranges), 30 cps to 4.5 mc. Ohms: (VTVM, 0-1000 meg in 6 ranges; VOM, 0-1 meg in 2 ranges) VTVM input impedance, 10 meg; VOM sensitivity, 5000 ohms/v. Zero-center scale. With battery. 8 $\frac{1}{2}$ x7 $\frac{1}{2}$ x3 $\frac{1}{2}$ ". For 105-125 v., 60 cycle AC. Wt., 6 lbs.

87 F 372. No Money Down. NET. .68.55



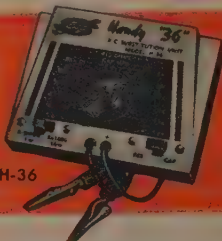
BE-113

**MODEL BE-113 DUAL TV BIAS SUPPLY.** Twin bias supply (for RCA, Admiral TV sets); provides all bias voltages for making RF or IF alignments, finding AGC and sync troubles, etc. Output (each supply): 0-20 VDC, negative or positive, with less than 0.1% ripple. Power transformer provides line isolation. Supplies may be used simultaneously. With leads. 2 $\frac{1}{2}$ x4x4". For 110-120 v., 50-60 cycle AC. Wt., 4 lbs.

87 F 373. NET. .12.49

**MODEL ES-102 CAPACITOR CHECKER.** (Not illus.) Similar to H-36. Instantly switches between 4, 10, 20, 40, 60, 80, 100, 150, 225, 350 mfd. 2-450 WV. 4 $\frac{1}{2}$ x4 $\frac{1}{2}$ x2 $\frac{1}{4}$ ". 2 $\frac{1}{4}$  lbs.

83 F 984. NET. .15.63



H-36

**MODEL H-36 SUBSTITUTION UNIT.** Combination resistance-capacitance substitution box. Switch selects any one of 36 components. Has 12—1-watt resistors, 10 ohms to 5K; 12— $\frac{1}{2}$ -watt, 10K to 5.6 megs; 10—600 v. capacitors, 100 mfd to 0.5 mfd; and 1 each, 10 and 40 mfd, 450 v. electrolytics. Simply insert R or C into circuit with leads (included). 2x4 $\frac{1}{4}$ x3 $\frac{1}{4}$ ". 2 lbs.

87 F 269. NET. .12.49

**NEW MODEL PR-111 "BIG 20."** (Not illus.) Similar to above, but for resistance only. Has 20 values from 2.5 to 15,000 ohms. Rated to 20 watts. 5x5x2 $\frac{1}{2}$ ". 1 $\frac{1}{2}$  lbs.

87 F 374. NET. .12.49

**MODEL SS-105 SWEEP CIRCUIT TESTER.** Quickly pinpoints troubles in TV horizontal and vertical sweep circuits. Includes universal vertical and horizontal oscillators, cathode-current checker, yoke and flyback checker. Reads 0-1000 VDC. 6x7 $\frac{1}{2}$ x3 $\frac{1}{2}$ ". For 110-120 v., 60 cycle AC. 4 lbs.

83 F 987. No Money Down. NET. .42.09

**MODEL LC-3 TUBE-CAPACITOR CHECKER.** Detects leakage in capacitors or between tube elements. Indicates grid-cathode leakage, and leakage in electrolytics, to 50K; to 100 megs in paper types. Test CRTs without removal. With leads. 7x6x3 $\frac{1}{2}$ ". For 110-120 v., 50-60 cycle AC. 3 $\frac{1}{2}$  lbs.

83 F 981. No Money Down. NET. .28.37

**MODEL TR-115 TRANSISTOR & DIODE CHECKER.** Battery-powered. Tests transistors for opens, shorts, leakage; reads current gain (beta) directly. Checks diode F/B ratios; seleniums for forward, reverse current. With leads, batt. 4 $\frac{1}{2}$ x5x2 $\frac{1}{4}$ ". 2 lbs.

87 F 375. No Money Down. NET. .19.55



RS-106



HG-104

**MODEL RS-106 RECTIFIER TROUBLE-SHOOTER.** A direct-substitution tester for simplifying radio-TV servicing. Simply adjust RS-106 to substitute for suspected rectifier and attach leads—then watch picture or listen to sound—you'll instantly know if unit is bad. Substitutes for selenium and silicon rectifiers, and for most single and dual diodes. With leads. 6 $\frac{1}{2}$ x7 $\frac{1}{2}$ x3 $\frac{1}{2}$ ". 1 $\frac{1}{4}$  lbs.

83 F 988. NET. .12.49

**MODEL HG-104 HARMONIC GENERATOR.** Battery-operated signal generator for fast signal-tracing of transistor radios. Also effective for testing TV, hi-fi and other audio circuits. Generates RF, IF and audio signals simultaneously. Traces from speaker to ant. Puts 1000-cps note through glow stages. With battery. 1 $\frac{1}{2}$ x3 $\frac{1}{2}$ x4 $\frac{1}{2}$ ". 1 lb.

83 F 986. NET. .9.75

Save Valuable Time  
With These  
Ingenious Sencore  
"TIME-SAVERS"



SS-105



LC-3

TR-115



MODEL FC-4  
FIELD TO CORE  
RESISTANCE  
CHECKER

Quickly finds bad tubes, including CRTs, in series-string TV sets. Test is very simple—no need to pull chassis. Also checks voltages (100-600) and fuse continuity, appliances, wiring, etc. 3 $\frac{1}{2}$ x4x1 $\frac{1}{2}$ ". With leads. For 110-120 v., AC or DC. Wt., 1 lb.

84 F 697. NET. .2.89

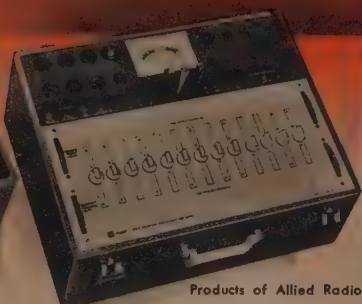
**VB-2 "VIBRA-DAPTOR."** Permits any tube tester to check vibrator. Has sockets for 3 or 4-prong units. 2 lamps show vibrator condition. Steel case. 3 $\frac{1}{2}$ x1 $\frac{1}{2}$ x1 $\frac{1}{2}$ ". 5 oz.

87 F 278. NET. .2.69



# Dependable Test Instruments . . .

**knight**



Products of Allied Radio

## Wired and Tested . . . Ready to Use

### MODEL 600A TUBE TESTER

- NET \$3.95
- Checks Over 1750 Tubes
  - Line Voltage Adjust
  - Illuminated Roll Chart

NO MONEY DOWN • Portable Wooden Case  
ate emission-type tester for checking  
ng tubes—including new compactron,  
or, novar and 10-pin miniature, plus  
industrial types. Also checks shorts,  
elements, cathode-filament leakage.  
4 1/2" meter, handy roll chart, 6 1/2 x  
0 1/2". For 110-125 v., 50-60 cycle  
ap. wt., 14 lbs.

518. No Money Down. NET 53.95

636. As above, but in kit form.  
With wire and solder. NET. . . . . 38.95

519. Same as Model 600A, but  
-type unit in metal case. 5 1/4 x 14 1/4 x  
Shpg. wt., 15 lbs. NET. . . . . 49.95

635. Above, kit form. NET. . . . . 34.95

513. CRT Harness. For testing CRT's  
to 90°. 1/2 lb. NET. . . . . 4.50

514. Harness Adapters. Adapt above  
9° CRT's. 2 oz. Set of 2. NET. . . . . 3.04

### MUTUAL-CONDUCTANCE TUBE TESTER

- NET \$149.95
- Laboratory Accuracy
  - Handles 14-Pin Tubes
  - Reads Percent of  $G_m$

NO MONEY DOWN • Tests Over 2500 Types  
The most advanced unit of its type, this  
sensational lab-quality, mutual-conduc-  
tance tube tester costs less than any other  
comparable unit—saves you time by cutting  
set-up time to just a couple of seconds!  
"Window chart" lets you instantly match  
switches to numbers that appear in win-  
dows. Meter reads true  $G_m$  of tubes direct  
in percentage—chart shows what each  
tube's  $G_m$  should be; also has "Good-Bad"  
scale. Checks over 2500 tube types; 19  
sockets handle most entertainment, foreign,  
industrial, and Ham types plus compactrons,  
novars, nuvistors, etc. Checks most tubes at  
their rated power, 10 1/4 x 19 1/4 x 14 1/4".  
For operation from 110-125 volts, 60 cycle AC.  
Shpg. wt., 30 lbs.

87 YZ 515. No Money Down. NET 149.95

83 YZ 996. As above, but in kit form.  
With wire and solder. NET. . . . . 99.50

### MODEL 502

#### 5" WIDE-BAND OSCILLOSCOPE

- NET \$109.95
- 5-Mc Bandwidth
  - Push-Pull V & H Amplifiers
  - 25 mv/inch Sensitivity

NO MONEY DOWN • I-v. p-p Calibrator

A 5" scope highly recommended for color TV  
servicing and other high-frequency uses.  
Offers exceptionally wide sweep range of  
15-600,000 cps. Locks in at frequencies up  
to 9 mc. Vertical response is  $\pm 3$  db, 5 cps  
to 5 mc; down only 1 db at the 3.58 mc color  
burst frequency. Input capacity, 21 mmf.  
Has frequency-compensated input attenuator;  
Z-axis input for intensity modulation.  
Internal astigmatism control; blanking cir-  
cuit. Direct-coupled positioning controls  
permit fast overshoot-free trace position-  
ing. 14 1/4 x 10 1/4 x 15 1/4". For 110-125 v., 60  
cycle AC. Shpg. wt., 28 lbs.

87 YU 502. No Money Down. NET 109.95

83 YU 144. As above, but in kit form.  
With wire and solder. NET. . . . . 69.95

87 Y 511. Low Capacity Probe. NET. . . 5.95

87 Y 512. Demodulator Probe. NET. . . 5.95



### RESISTOR-CAPACITOR CHECKER

Highly accurate resistor-capacitor  
tester. Checks for opens and shorts in  
mica and ceramic capacitors. Large  
shows capacitance and resistance at a  
—balanced bridge circuit with "mag-  
" indicator. Shows power factor of  
olitics from 0-50%. Tests for leakage  
50-450 v. Measures capacity from 10  
to 1000 mfd in 4 ranges; resistance  
100 ohms to 5 meg in 2 ranges. Accu-  
10%. Portable metal case, 7 1/4 x 10 1/4 x  
For operation from 110-125 v., 60  
AC. Shpg. wt., 8 lbs.

503. NET. . . . . 29.95

124. As above, but in kit form. With  
and solder. NET. . . . . 19.95



### MODEL 516 RF SIGNAL GENERATOR

Wide-range RF signal generator with a fun-  
damental output, in 5 ranges, from 160 kc  
to 112 mc plus a useful harmonic output to  
224 mc. RF can be modulated at 400 cps—  
has built-in audio oscillator with jack for  
400-cycle output. Unit also serves as TV  
marker generator when used with a sweep  
generator. Features highly stable Colpitts  
circuit. Has jack for external modulation.  
Max. audio output, 10 v. RF output exceeds  
0.1 v. on all ranges. Step and continuous-  
type attenuator controls permit precise out-  
put adjustment. 7 1/4 x 10 1/4 x 5 1/4". For 110-  
125 v., 60 cycle AC. 11 lbs.

87 YX 516. No Money Down. NET 29.95

83 Y 145. Above, but kit form. NET 19.95

**CREDIT FUND PLAN**  
Better equipment  
means faster, more  
profitable servicing.  
Outfit your shop now  
with top-value Knight  
test instruments. Use  
Allied's new Credit  
Fund Plan—no money  
down—enjoy up to 24  
months to pay.



### POPULAR MODEL 504 VTVM

Precision VTVM using 1% film-type resis-  
tors. 4 1/2", 200  $\mu$ a meter has zero-center  
scale, direct-reading db scale. Polarity re-  
verse switch, push-pull circuit. Response, 30  
cps to 3 mc. 11-meg input resistance. AC  
rms & DC v.: 0-4-14-40-140-400-1400-4000; AC  
rms & DC v.: 0-1.5-5-15-50-150-500-1500;  
ohms, 0-1K-10K-100K; 1-10-100-1000 megohms;  
db, -10 to +65. With batt. 7 3/4 x 5 1/4 x 4 1/4".  
For 110-125 v., 60 cycle AC. 7 lbs.

87 Y 504. No Money Down. NET. . . 35.95

83 Y 125. Above, but kit form. NET 25.95

87 Y 508. High-Voltage Probe. Extends  
range to 50,000 VDC. 1 1/2 lbs. NET. . . 6.95

87 Y 509. High-Frequency Probe. Extends  
AC range to 250 mc. 1 1/2 lbs. NET. . . 5.95

### POPULAR TESTERS FOR QUICK SERVICING



#### TUBE & TRANSISTOR TESTER KIT

MODEL 666-K. Indicates Gm, Gp, peak emission and leakage of virtually all receiving tubes, many special-purpose, VRs, etc. Also measures transistor collector current and shows current amplification factor.  $4\frac{1}{2}$ " 200  $\mu$ a meter movement. Gear-driven roll-chart has snap-in windows for adding new data.  $12 \times 15 \times 4\frac{1}{2}$ ". Less solder. For 105-130 v., 50-60 cycle AC. 20 lbs.

83 FX 198. NET. 69.95

MODEL 666. As above, but factory-wired. 87 FX 226. NET. 109.95

MODEL CRA ADAPTER. (Not illus.) Adapts 625 and 666 tube testers to check all TV picture tubes, except 110°. Tests for emission, filament continuity, shorted elements. With standard 12-pin socket, octal connector, 4-ft. cable. Shpg. wt., 2 lbs.

84 F 348. NET. 4.50

MODEL CRA-110. As above, but with "Eight-ar" 8-contact socket for 110° tubes. 19 lb. 83 F 879. NET. 3.95

#### MODEL 540-K READI-TESTER KIT



MODEL 540-K. All-in-one AC/DC voltmeter, ammeter, ohmmeter, wattmeter, and leakage tester—expressly designed for do-it-yourself home-appliance and auto repairs. Ranges: AC-DC volts. 0-7.5, 15, 150, 300; AC or DC Amps. 0-15. Resistance. 0-1000 ohms. Has neon indicator for testing continuity and AC leakage.  $3\frac{1}{2}$ " meter. Panel outlet for current metering. Aluminum panel, bakelite case. Batteries, leads. Less solder.  $6\frac{1}{2} \times 3\frac{1}{2} \times 3\frac{1}{2}$ ". 3 lbs.

82 F 199. NET. 12.95

MODEL 540. As above, but factory-wired. 84 F 667. NET. 15.95

#### MODEL 625-K TUBE TESTER KIT



MODEL 625-K. Tests tubes for emission, shorted elements, open elements, and continuity. Full-vision,  $4\frac{1}{2}$ " meter with 3-co. Replace-Weak-Good scale and 0-to-100 scale for matching. Fused. Ten lever-actuated switches for testing every element. Less solder. For 105-125 v., 60 cycle AC.  $12\frac{1}{2} \times 4\frac{1}{2}$ ". 12 lbs.

83 FX 161. NET. 34.95

MODEL 625. As above, but factory-wired. 84 FX 397. NET. 49.95

MODEL L-1. Lid (cover) for 625-K or 625. 83 FX 880. NET. 3.95

### TOP-QUALITY VACUUM-TUBE VOLTMETER KITS



221-K



232-K



249-K

MODEL 221-K. Sensitive, 20-range unit with 25-meg DC input, protected  $4\frac{1}{2}$ " meter, zero-center scale, balanced bridge, and 1% multiplier resistors. Ranges: AC/DC v. 0.5-10-100-500-1000 (extends with probes, right); 0-1000 ohms, 0-10-100-1000 megs; -20 to +55 db. Tubes: 6H6, 6SN7, 6X5 rectifier. With leads. For 105-125 v., 50-60 cycle AC.  $9\frac{1}{2} \times 16 \times 5\frac{1}{2}$ ". 7 lbs.

83 F 152. NET. 25.95

MODEL 221. As above, but factory-wired. 84 FX 389. NET. 39.95

MODEL 232-K. A peak-to-peak VTVM for color and monochrome TV servicing. Has protected  $4\frac{1}{2}$ " meter, balanced-bridge circuit, 1% multiplier resistors, and time-saving "Unit Probe". Ranges: p-p volts. 0-4-14-42-140-420-1400-4200 volts; DC/rms volts. 0.15-5-15-50-150-500-1500 volts; resistance. 0 to 1000 megs in 7 ranges. With tubes; rectifier. Less solder. For 105-125 v., 50-60 cycle AC.  $8\frac{1}{2} \times 5 \times 5\frac{1}{2}$ ". 5 lbs.

83 F 186. NET. 29.95

MODEL 232. As above, but factory-wired. 84 F 659. NET. 49.95

MODEL 214-K. (Not illus.) Same as 221 (left), but deluxe model with  $7\frac{1}{2}$ " meter  $9 \times 13\frac{1}{2} \times 6$ ". Less solder. 11 lbs.

83 FX 170. NET. 34.95

MODEL 214. As above, but factory-wired. 84 FX 344. NET. 54.95

MODEL 249-K. Same as 232-K (left), but 7" meter.  $8\frac{1}{2} \times 13 \times 5\frac{1}{2}$ ". 9 lbs.

83 F 187. NET. 39.95

MODEL 249. As above, but factory-wired. 84 F 660. NET. 59.95

#### VTVM PROBES

For use with Eico VTVMs. As. wt., 1 lb.

| Stock No. | Type     | Description                                                  | NET   |
|-----------|----------|--------------------------------------------------------------|-------|
| 83 F 188  | PTP-25-K | P-to-P probe kit for 221, 214, 249-K                         | 34.95 |
| 84 F 661  | PTP-25   | As above, but factory-wired.                                 | 54.95 |
| 83 F 189  | PRF-25-K | RF probe kit for 221 or 214, 300,000 v. Wired, tested, 1 lb. | 34.95 |
| 84 F 662  | PRF-25   | As above, but factory-wired.                                 | 54.95 |
| 83 F 196  | PRF-11-K | RF probe kit for 232 or 249, 300,000 v. Wired, tested, 1 lb. | 39.95 |
| 83 F 197  | PRF-11   | As above, but factory-wired.                                 | 59.95 |

HVP-2 HV PROBE. Adapts VTVMs for 30,000 v. Wired, tested, 1 lb.  
84 F 663. For Models 214, 221. NET  
84 F 669. For Models 232, 249. EA. 4.95

#### MODEL 565-K VOM KIT

A 31-range VOM featuring 20,000 ohms/volt DC sensitivity and  $4\frac{1}{2}$ " meter with 50  $\mu$ a movement. Ranges: DC output volts. 0-2.5-10-50-100-500 (AC at 1000 ohms v.); DC. 0-100  $\mu$ a, 0-10-100-500 ma, 0-10 a.; 0-2000-200,000 ohms, 0-20 megs; -12 to +55 db in 5 ranges. With batteries and case.  $6\frac{1}{2} \times 5\frac{1}{2} \times 4\frac{1}{2}$ ". Less leads, solder. 4 lbs.

83 F 172. NET. 24.95

84 F 346. Model 565. Above, factory-wired. NET. 29.95

83 F 167. Model 555-K. Same kit as 565-K above, but 1% resistors. Shpg. wt. 4 lbs. NET. 29.95

84 F 391. Model 555. Above, factory-wired. NET. 34.95



536-K



556-K

#### STANDARD VOM KITS

MODEL 536-K. 3" meter. 38 ranges: AC/DC volts. 0.1-5-10-50-100-500-5000 at 1000 ohms/v.; 0-500, 0-100,000 ohms, 0-1 meg; AC/DC. 0-1-10 ma and 0-0.1-1 a.; 6 ranges: -20 to +69 db. With case, battery. Less leads, solder.  $6\frac{1}{2} \times 3\frac{1}{2} \times 2\frac{1}{2}$ ". Wt., 3 lbs.

83 F 171. NET. 12.90

MODEL 536. As above, but factory-wired. 84 F 345. NET. 16.90

MODEL 526-K KIT. As above, but with 1% resistors. Shpg. wt., 3 lbs.

83 F 166. NET. 13.90

MODEL 526. As above, but factory-wired. 84 F 390. NET. 18.90

MODEL 556-K. Same 38 ranges as Model 536-K above, but has  $4\frac{1}{2}$ " meter, 400  $\mu$ a movement and 1% resistors. Accuracy: AC/DC  $\pm 3\%$ ; AC  $\pm 5\%$ . 1000 ohms/volt on AC/DC. With case, battery. Less leads, solder.  $6\frac{1}{2} \times 5\frac{1}{2} \times 4\frac{1}{2}$ ". Shpg. wt., 4 lbs.

83 F 173. NET. 16.90

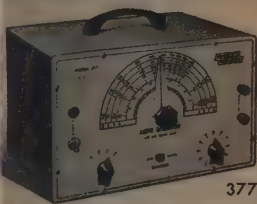
MODEL 556. As above, but factory-wired. 84 F 347. NET. 23.50





## Kits and Wired

### AUDIO GENERATOR KIT



377-K

377-K. A precision instrument using bridge type oscillator circuit with diodes to provide both sine and square waves. Ideal for radio-TV service-enthusiasts, etc. Sine wave range: 1000 cps in 4 bands,  $\pm 1\frac{1}{2}$  db from 1000 cps. less than 1% distortion. Sweep range: 60 to 50,000 cps in 4  $\frac{1}{2}$  tilt at 60 cps, 5% rounding at 1000 cps. Output: 10 volts across rated 1000 ohms.  $6\frac{1}{2}$ " dial has 0-100 scale. Calibration accuracy,  $\pm 1$  cps.  $7\frac{1}{2} \times 11\frac{1}{2} \times 7\frac{3}{4}$ ". Less solder. For 105-125 v., 50-60 cycle AC. 14 lbs.

69. NET. 31.95

77. As above, but factory-wired. 49. NET. 49.95



368-K  
Sweep  
Generator  
& Marker



360-K  
Sweep  
Generator

### SWEEP GENERATOR KITS

368-K. Sweep generator and marker with highly accurate alignment of FM, 1 black-and-white TV. Covers 3 to 100 mc in 5 ranges. Variable frequency provides output from 2 to 75 mc on fundamentals; to 225 mc on harmonics. Width is variable from 0-30 mc. Built-in crystal marker for oscillator. Proal markers for RF or IF alignment. Provision for adding external marker. Continuous variable sweep and marker attenuator. Has retrace blanking. Output impedance, 50 ohms. Edge-lit hairlines for accuracy. With 5 tubes; 8X4, selenium rectifier.  $8\frac{3}{4} \times 13\frac{1}{2} \times 7\frac{3}{4}$ ". For 105-125 v. cycle AC. 16 lbs.

50. NET. 69.95

368. As above, but factory-wired. 72.5. NET. 119.95

360-K. Sweep generator for quick, accurate alignment of TV and FM receivers. 400 kc to 228 mc. Variable sweep. Built-in crystal marker oscillator with variable amplitude. Provision for injection of external marker. Phase control.  $8\frac{1}{2}$ " tuning dial. With tubes. Less 5-mc and solder.  $8\frac{1}{2} \times 10\frac{1}{2} \times 6\frac{3}{4}$ ". For 105-125 v. cycle AC. 12 lbs.

39. NET. 34.95

360. As above, but factory-wired. 42. NET. 49.95

### 425-K 5" OSCILLOSCOPE KIT



425-K

Popular wide-band scope with push-pull outputs for balanced deflection. Sensitivity, .05 to 0.1 rms volt/inch. Response, 5 cps to 500 kc, vertical usable to 2.5 mc. Input imp., 1 meg. Sweep range, 15-75,000 cps. External sync input. Direct connection to CRT plates. 6.3 v. line test signal output.  $15\frac{1}{2} \times 8\frac{1}{2} \times 17\frac{3}{4}$ ". With tubes. Less solder. For 105-125 v., 50-60 cycle AC. 30 lbs.

83 FU 155. NET. 44.95

MODEL 425. As above, but factory-wired. 84 FU 392. NET. 79.95

488-K ELECTRONIC SWITCH KIT. (Not illus.) For viewing 2 patterns on 1 scope. Variable switching, 10-2000 cps. Resp., 0-30,000 cps ( $\pm 2$  db).  $6\frac{1}{2} \times 8\frac{1}{2} \times 6$ ". Less solder. Leads. For 105-125 v., 50-60 cycle AC. 7 lbs.

83 F 185. NET. 23.95

MODEL 488. As above, but factory-wired. 84 F 658. NET. 39.95

SCOPE PROBES. For TV signal, waveform tracing, etc. Shielded. Av. wt., 5 oz.

| Stock No. | Type  | Description             | NET  |
|-----------|-------|-------------------------|------|
| 83 F 180  | PSD-K | Demodulator Probe Kit.  | 3.75 |
| 84 F 653  | PSD   | As above, but wired.    | 5.75 |
| 83 F 181  | PD-K  | Direct Probe Kit.       | 2.75 |
| 84 F 654  | PD    | As above, but wired.    | 3.95 |
| 83 F 182  | PLC-K | Low-Capacity Probe Kit. | 3.75 |
| 84 F 655  | PLC   | As above, but wired.    | 5.75 |

460-K

### MODEL 460-K 5" OSCILLOSCOPE KIT

Lab-precision wide-band scope for color and monochrome TV. Response flat from DC to 4.5 mc, usable to 10 mc. Reproduces 3.58 mc color TV sync burst. 4-step frequency-compensated attenuator in both DC and AC positions. High vertical sensitivity, 25 mv/inch. Voltage calibrator permits peak-to-peak measurements. Full-screen DC vertical positioning, 2X horizontal positioning. Sweep: 10 cps to 100 kc, plus low freq. sweep. With tubes.  $13\frac{1}{2} \times 8\frac{1}{2} \times 16$ ". For 105-125 v., 50-60 cycle AC. 29 lbs.

83 FU 193. NET. 79.95

MODEL 460. As above, but factory-wired. 84 FU 668. NET. 129.50

### 495-K VOLTAGE CALIBRATOR KIT

(Not illus.) Injects calibrated, semi-square wave on scope screen for comparison with any waveform. Ranges: 0-1-1-10-100 v. peak-to-peak. Accuracy:  $\pm 5\%$  of full scale. With tubes.  $5\frac{1}{2} \times 7\frac{1}{2} \times 4$ ". Less leads. For 105-125 v., 60 cycle AC. Wt., 4 lbs.

83 F 176. NET. 12.95

MODEL 495. As above, but factory-wired. 84 F 384. NET. 17.95

### RF SIGNAL GENERATOR KITS



320-K



315-K



324-K

MODEL 320-K. A popular, low-cost unit for general service requirements. Well-designed circuit uses a stable Hartley oscillator. Covers 150 kc to 34 mc on fundamentals to 102 mc on harmonics. 400 cps modulation. Has  $9\frac{1}{2}$ " dial calibrated in 7 bands. With tubes, portable case; parts, shielded cable, instructions, etc.  $8\frac{1}{2} \times 10\frac{1}{2} \times 4\frac{3}{4}$ ". For 105-125 v., 50-60 cycle AC. 10 lbs.

83 F 154. NET. 19.95

MODEL 320. As above, but factory-wired. 84 F 394. NET. 29.95

MODEL 315-K. A deluxe model with professional features for AM, FM, TV servicing. 1% accuracy from 75 kc to 150 mc.  $9\frac{1}{2}$ " illuminated dial. Vernier tuning. Provision for external modulation. Internal 400 cps sine wave generator with attenuator for RF modulation and external audio testing. With 7F7, 6C4; VR150, 6X5,  $13\frac{1}{2} \times 12\frac{1}{2} \times 7$ ". For 105-125 v., 50-60 cycle AC. 20 lbs.

83 FU 162. NET. 39.95

MODEL 315. As above, but factory-wired. 84 FU 395. NET. 59.95

MODEL 324-K. The latest in Eico's world-famous line of RF signal generator kits, Model 324-K offers more features, more versatility, more range and more accuracy than many generators costing much more. Unit provides modulated or unmodulated RF signal and continuous output from 150 kc to 435 mc. Has expanded frequency range of 6 fundamental bands: 150-400 kc, 400-1200 kc, 1.2-3.5 mc, 3.5-11 mc, 11-37 mc and 37-145 mc. One harmonic band covers 111-435 mc. Calib. accuracy,  $\pm 1.5\%$ .

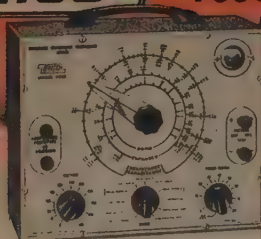
Output impedance, 50 ohms. Internal modulation of 400 cps variable from 0 to 50%; can be used for audio testing. Input has gain control for use with external modulator.

Colpitts RF oscillator is directly modulated by cathode follower. Fine and coarse RF attenuators, 6:1 vernier tuning knob, etched dial and edge-lit hairlines for peak accuracy. With tubes and parts.  $8\frac{1}{2} \times 10\frac{1}{2} \times 4\frac{3}{4}$ ". For 105-125 v., 50-60 cycle AC. 10 lbs.

83 F 192. NET. 26.95

MODEL 324. As above, but factory-wired. 84 F 666. NET. 39.95

950



**RESISTANCE-CAPACITANCE BRIDGE KIT**  
**MODEL 950-K.** Combines an R-C bridge and R-C-L comparator. Measures (in 4 ranges) resistors from 0.5 ohm to 500 meg and capacitors from 10 mfm to 5000 mfd. .05 to 20 comparator range. "Magic eye" null indicator. Continuously variable 0-500 v. DC source for checking capacitors at rated voltage. Tests capacitors for shorts, leakage and, in the case of electrolytics, measures power factor. Less solder, leads. 10x8x4 1/2". For operation from 105-125 v., 60 cycle AC. Shpg. wt., 10 lbs.  
**83 F 164. No Money Down. NET. 19.95**  
**MODEL 950.** As above, but factory-wired.  
**84 F 387. No Money Down. NET. 29.95**

**RESISTANCE-SUBSTITUTION BOX KIT**  
**MODEL 1100-K.** (Not illus.) Gives all values that are multiples of ten of 15, 22, 33, 47, 68 and 100 ohms, from 15 ohms to 10 meg (1-watt, 10%). 5-way binding posts. 3/4x6 1/2x3 1/2". Less solder, leads. 2 lbs.  
**83 F 179. NET. 6.95**  
**MODEL 1100.** As above, but factory-wired.  
**84 F 652. NET. 10.95**

**CAPACITOR SUBSTITUTION BOX KIT**  
**MODEL 1120-K.** (Not illus.) Wide range of values from 0.0001 to 0.22 mfd in 18 steps.  $\pm 10\%$  accuracy. Most capacitors rated 600 v., others, 400 v. 5-way binding posts. 3/4x6 1/2x3 1/2". Less solder, leads. 2 lbs.  
**83 F 191. NET. 5.95**  
**MODEL 1120.** As above, but factory-wired.  
**84 F 665. NET. 9.95**

Ideal For Design Work



1140



1171

**RESISTANCE-CAPACITANCE BOX KIT**  
**MODEL 1140-K.** A highly versatile combination of Models 1100-K and 1120-K substitution units. Allows development of differentiating, integrating and other wave-shaping R-C networks. (See descriptions of the 1100-K and 1120-K, at left, for specifications.) Less solder and leads. Size, 6 1/2x5 1/2x2 1/2". Shpg. wt., 3 lbs.  
**87 F 350. NET. 13.95**  
**MODEL 1140.** As above, but factory-wired.  
**87 F 351. No Money Down. NET. 19.95**

## RESISTANCE DECADE BOX KIT

**MODEL 1171-K.** Supplies values from 0 to 99,999 ohms in 1-ohm steps with 1/2% accuracy. Uses 1-watt resistors. Five 10-position switches. Comparator position and binding posts for instant substitution of actual equivalent component. Supplied with durable steel case, 3 1/2x12x3". Less solder, leads. Shpg. wt., 3 lbs.  
**83 F 165. No Money Down. NET. 19.95**  
**MODEL 1171.** As above, but factory-wired.  
**84 F 388. No Money Down. NET. 24.95**

## CAPACITOR DECADE BOX KIT

**MODEL 1180-K.** (Not illus.) 100 mfm to .111 mfd in 100-mfm steps. 350 WVDC. 1% micas. Positive detent ceramic switches. Zero capacitance, 7 mfm 9x3 1/2x3 1/2". Less solder, leads. Shpg. wt., 3 lbs.  
**83 F 183. NET. 14.95**  
**MODEL 1180.** As above, but factory-wired.  
**84 F 656. No Money Down. NET. 19.95**



147

## DELUXE SIGNAL TRACER KIT

**MODEL 147-K.** High and low-gain RF channels with internal wide-range demodulator permit direct observation of signal. Has output for VTVM or scope. May be connected as substitute speaker, output transformer or amplifier. Features visual-audio monitoring of all RF and AF channels, magic eye 5" speaker, wattmeter, noise localizer, huf balance. Aluminum panel, gray steel case. Size, 9x10x5". Supplied with probes, less solder. For operation from 105-125 v., 60 cycle AC. Shpg. wt., 10 lbs.

**83 F 190. No Money Down. NET. 24.95**  
**MODEL 147.** As above, but factory-wired.  
**84 F 664. No Money Down. NET. 39.95**



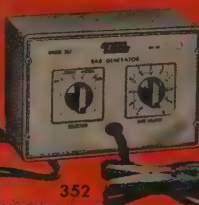
## SIGNAL TRACER KIT

**MODEL 145-K.** economy unit that quickly checks I, RF, video and audio circuits. Features built-in speaker, a dio amplifier with volume control, noise locator, with scope or VTVM.

**VM** for visual tracing. With probes. Less solder. 7 1/2x5 1/2x5 1/2". For 105-125 v., 60 cycle AC. Shpg. wt., 7 lbs.  
**83 F 158. No Money Down. NET. 19.95**  
**MODEL 145.** As above, but factory-wired.  
**84 F 385. No Money Down. NET. 28.95**



630



352



944



710



584

**MODEL 630-K CRT CHECKER KIT.** Tests all CRT's—has bridge for measurement of peak beam current (which is proportional to screen brightness). Neon lamp acts as a sensitive bridge balance indicator. Balance control calibrated directly in terms of CRT condition. 2 sockets, each with 2 1/2" cable for duo-decal (12-pin) and diheptal (14-pin) tubes. Less solder. 6 1/2x9 1/2x3 1/2". For 105-125 v., 60 cycle AC. 5 lbs.  
**83 F 177. NET. 13.95**

**MODEL 630.** As above, but factory-wired.  
**84 F 650. NET. 18.95**

**MODEL 352-K BAR GENERATOR KIT.** For adjusting vertical and horizontal linearity. Produces 16 vertical and 12 horizontal bars (number of bars variable). Video carrier tunable over channels 2-6. 3-way antenna clip. 7 1/2x5 1/2x4 1/2". Less solder. For 105-125 v., 60 cycle AC. Shpg. wt., 4 lbs.  
**83 F 178. NET. 14.95**

**MODEL 352.** As above, but factory-wired.  
**84 F 651. No Money Down. NET. 19.95**

**MODEL 944-K FLYBACK TESTER KIT.** Quickly and easily spots defective flyback transformers and yokes in black and white and color TV sets. Also checks continuity of yokes, speakers, etc. Features grid-dip principle and separate calibration for air and iron-core flybacks. 4 1/2" meter with 3 separate colored scales. Aluminum panel, gray wrinkle steel case. 8 1/2x5x5". Less solder. 105-125 v., 60 cycle AC. 5 lbs.  
**83 F 184. No Money Down. NET. 23.95**

**MODEL 944.** As above, but factory-wired.  
**84 F 657. No Money Down. NET. 34.95**

**MODEL 612-K CONTINUITY TESTER KIT.** (Not illus.) Battery-powered filament continuity checker. Checks filaments of tubes in an inoperative series string in rapid succession. Neon lamp indicator. CRT adapter plug. 7-pin, 9-pin, octal and local sockets. Aluminum panel, bakelite case. With batteries; less solder. 6 1/2x3 1/2x2 1/2". 2 lbs.  
**83 F 966. NET. 3.95**

**MODEL 612.** As above, but factory-wired.  
**83 F 967. NET. 5.95**

**MODEL 710-K GRID-DIP METER KIT.** Operates as oscillating detector or wavemeter; covers 400 kc to 250 mc in 8 ranges. Use it to find frequencies of oscillators or tuned circuits—pre-tune and neutralize transmitters; adjust antennas, traps, filters; etc. Has sensitivity control, phone jack 500  $\mu$ a meter, 1 planetary drive, plug-in coils, illuminator scale. Less solder. For 110-120 v., 60 cycle AC. 2 1/2x2 1/2x6 1/2". 3 lbs.  
**87 F 352. No Money Down. NET. 29.95**

**MODEL 710.** As above, but factory-wired.  
**87 F 353. No Money Down. NET. 49.95**

**MODEL 584-K BATTERY TESTER KIT.** Quickly tests portable radio "A" and "B" batteries in or out of receiver. Test switch positions (volts): 1.5, 4.5, 6.0, 7.5, 9.0, 22.5, 45, 67.5, 90, plus spare. 3 1/2" meter. Bakelite case aluminum panel, 6 1/2x3 1/2x2". Less solder. With leads. Shpg. wt., 2 lbs.  
**83 F 195. NET. 9.95**

**MODEL 584.** As above, but factory-wired.  
**84 F 671. NET. 12.95**



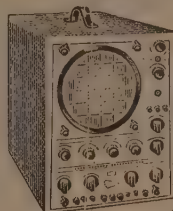
# Precise and Seco Test Equipment

## PRECISE TEST EQUIPMENT—KIT OR WIRED

**precise**



630-KA



300-K



116-K

### 630-KA RF-AF-TV signal generator

1 630-KA. RF-AF-TV signal generator. Reaches 110 mc on fundamentals; 330 mc on harmonics. Pre-assembled heads; audio, 20-20,000 cps; dc follower output; variable percent modulation; speech amp.; crystal marker generator. RF, AF stand-by; Wien AF oscillator; Colpitts RF oscillator; beatings. Also has constant output inductance; Vernier tuning; separate RF section individually tuned coils; full shielding; d line. Size, 8x11x5". Has aluminum leather carrying handle. For 110-120 v., 60 cycle AC. Shpg. wt., 11 lbs.

83 FU 130. No Money Down. NET. 38.95

EL 630-W. As above, but factory-wired.

83 FU 497. No Money Down. NET. 53.95

### 116-K accurate conductance type tube tester

EL 308-K. (Not illus.) Features magnifier lens; bridge-type centering; outstanding sharpness and speed; push-pull type for internally mixing 2 signals or giving push-pull waveforms. Vertical scale,  $\pm 1.5$  db to 5 mc. Return trace arrow. Linear sweep, 1 cycle to 80 kc. e-wave calibrator. 11x14x17". For 110-120 v., 50-60 cycle AC. Wt., 36 lbs.

83 FU 132. NET. 129.50

EL 308-W. As above, but factory-wired.

83 FU 690. NET. 229.50

### 7" SCOPE KIT

MODEL 300-K. Vertical response,  $\pm 3$  db up to 5 megacycles with sensitivity of 10 millivolts. Frequency-compensated vertical and horizontal stepping attenuators. Push-pull DC amplifiers; push-pull horizontal. Astigmatic focus control. Linear sweep from 1 cycle to 80 kc. Internal square wave calibrator with pot. Special circuit magnifies any portion of signal up to 10 times. 5-way binding posts; also gate and sawtooth outputs on front panel. 11x14x17". For 110-120 v., 60 cycle AC. 35 lbs.

83 FU 131. No Money Down. NET. 99.95

MODEL 960 CAPACITOR ATTENUATOR PROBE. For Models 300, 308 scopes. To 100 mc. 7 mmf input. Shpg. wt., 1 1/2 lbs.

84 F 691. NET. 5.95

### ECONOMY TUBE TESTER—KIT OR WIRED

MODEL 116-K. Accurate conductance type tube tester kit for testing all receiving-type tubes and transistors. Makes emission Gm, gas, life, and short tests. Checks individual sections of multisection tubes. Cover chart lists all popular tubes—gives switch settings. Molexskin covered wood carrying case. 7 1/2x16 1/2x14 1/2". For 110-120 v., 60 cycle AC. Shpg. wt., 16 lbs.

84 FU 104. No Money Down. NET. 69.95

MODEL 116-W. As above, but factory-wired.

84 FU 695. No Money Down. NET. 119.95

### DELUXE TUBE TESTER—KIT OR WIRED

- Both Emission and Gm Testing
- For Receiving and CR Tubes

MODEL 111-K. Advanced design tube tester kit. Checks both emission and mutual conductance separately—roll chart indicates the most important single test for normal applications. Tests virtually all receiving tubes; also tests CRT's with Model PTA-K CRT adapter kit, listed below.

Features rotary type switches; gas check; single-switch short check; anti-backlash roll chart. Single switch tests each element against every other element. Allows filament current and tube bias to be measured on meter. Sweeps from zero voltage through normal testing range when making measurements. Has spare switch for future tube types. In moleskin covered wooden carrying case. Size, 7 1/2x16 1/2x14 1/2". For 110-120 v., 60 cycle AC. Shpg. wt., 25 lbs.

83 FU 133. NET. 79.95

MODEL 111-W. As above, factory-wired.

84 FU 692. NET. 139.95

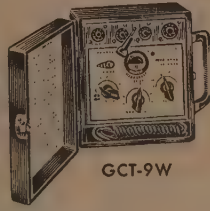
MODEL PTA-K. CRT adapter kit for above. For testing picture tubes. 1 1/2 lbs.

84 F 693. NET. 2.95

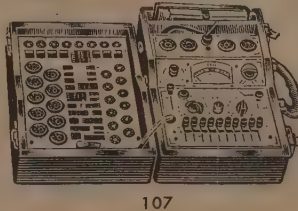
MODEL PTA-W. As above, factory-wired.

84 F 694. NET. 4.25

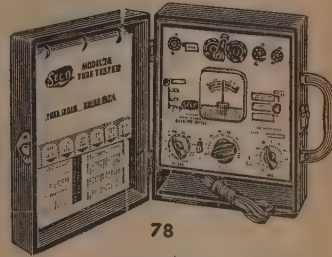
## SECO TEST EQUIPMENT



GCT-9W



107



78

### TRANSISTOR CHECKER

EL 203. Dynamically tests small-signal, and power types—in or out of circuit. Indicator checks shorts, opens and simultaneously. Fast "Go/No-Go" jacks for scope, etc. 6 1/2x3 1/2x2". With try. 1 1/2 lbs.

203. No Money Down. NET. 19.55

### "MOSQUITO" SIGNAL INJECTOR



Size signal generator. Transistorized. Also has 1000 cps tone rich in harmonics for both AF and RF use. 6" long. In pocket like a pen. With penlight. Shpg. wt., 3 oz.

84 FU 470. NET. 8.95

### GRID CIRCUIT TUBE TESTER

MODEL GCT-9W. For fast, accurate tests of grid emission, leakage, shorts, gas and cathode continuity in most TV tube types. Results are instantly and visually shown on 6AF6G "eye" indicator. Interleaved shorts are identified to pin numbers. Includes tube set-up data. Size, 6 1/2x6 1/2x2 1/2". For 110-120 v., 60 cycle AC. 4 1/2 lbs.

87 F 307. No Money Down. NET. 34.25

### PORTABLE TUBE TESTER

MODEL 107A. A versatile new tube tester. "Good-Bad" meter shows results of DMC and cathode emission test; "eye" shows "control-grid-emission". Also checks filament continuity, leakage, open elements, gas. Tests subminiature and foreign tubes. 6x9x13 1/2". For 110-120 v., 60 cycle AC. Shpg. wt., 15 lbs.

87 FU 295. No Money Down. NET. 146.51

### GRID CIRCUIT & TUBE MERIT TESTER

MODEL 78. An efficient, time-saving tester featuring simple, ultra-fast operation. Uses only 5-sockets for complete test coverage of all modern heater-type radio and TV tubes—especially suited for hybrid types.

A single, easy-to-read 5-ma meter indicates results for both grid circuit and tube merit tests. Meter deflects to left for grid circuit test; to right for cathode-emission merit test. Two-stage DC amplifier isolates meter from tube under test—protects meter and permits a wide range of load currents and test conditions.

Set-up is quick and easy; flip cards listing test data are stored in the detachable cover. In fabric covered wood case. With pin straighteners. 9x10 1/2x5 1/2". For 110-120 volts, 50-60 cycle AC. Shpg. wt., 6 lbs.

87 F 249. No Money Down. NET. 68.11

# Triplett and Emico Panel Meters



Selection of DC  
D'Arsonval  
Type and AC  
Iron-Vane Type  
Quality Meters

4 1/2"



2 1/2", 3 1/2"

Accuracy within 2% of full scale. Jeweled bearings and hardened alloy steel pivots. Metal dial faces, finished in white enamel. Have molded zero-adjusters and cushioned ceramic pointer stops. All parts are heat-treated—steel parts rustproofed. Black bakelite cases. Av. shpg. wt., 1 1/2 lbs. When ordering, include Range and Model No. in table at right. Depth column denotes meter depth behind panel less terminals.

## DC MILLIAMMETERS

| Range | 2 1/2" Rnd. | NET EACH | 3 1/2" Rnd. | NET EACH | 4 1/2" Rect. | NET EACH |
|-------|-------------|----------|-------------|----------|--------------|----------|
| 0-1   | 66 F 150    | 10.90    | 66 F 100    | 11.60    | 66 F 136     | 12.80    |
| 0-5   | 66 F 152    |          | 66 F 102    |          | 66 F 138     |          |
| 0-15  | 66 F 154    |          | 66 F 104    |          | 66 F 139     |          |
| 0-50  | 66 F 156    | 11.30    | 66 F 106    | 12.00    | 66 F 141     | 13.20    |
| 0-100 | 66 F 157    |          | 66 F 107    |          | 66 F 142     |          |
| 0-200 | 66 F 159    |          | 66 F 109    |          | 66 F 144     |          |
| 0-250 | 66 F 160    |          | 66 F 110    |          | 66 F 145     |          |
| 0-500 | 66 F 162    |          | 66 F 112    |          | 66 F 147     |          |

## DC VOLTMETERS

1000 OHMS PER VOLT—WITH CARBON, FILM-TYPE RESISTORS

Economical units. For use where high humidity is not encountered. Have external resistors. Specify Range and Model No. when ordering.

| Range  | 2 1/2" Rnd. | NET EACH | 3 1/2" Rnd. | NET EACH | 4 1/2" Rect. | NET EACH |
|--------|-------------|----------|-------------|----------|--------------|----------|
| 0-10   | 66 F 903    | 11.80    | 66 F 963    | 12.30    | 66 F 983     | 13.50    |
| 0-15   | 66 F 904    |          | 66 F 964    |          | 66 F 984     |          |
| 0-25   | 66 F 905    |          | 66 F 965    |          | 66 F 985     |          |
| 0-50   | 66 F 906    |          | 66 F 966    |          | 66 F 986     |          |
| 0-100  | 66 F 907    |          | 66 F 967    |          | 66 F 987     |          |
| 0-200  | 66 F 908    | 14.10    | 66 F 968    | 13.00    | 66 F 988     | 14.20    |
| 0-250  | 66 F 909    |          | 66 F 969    |          | 66 F 989     |          |
| 0-300  | 66 F 910    |          | 66 F 970    |          | 66 F 990     |          |
| 0-500  | 66 F 911    |          | 66 F 971    |          | 66 F 991     |          |
| 0-750  | 66 F 912†   |          | 66 F 972    |          | 66 F 992     |          |
| 0-1000 | 66 F 913†   | 17.20    | 66 F 973    | 13.00    | 66 F 993     | 14.20    |
| 0-1000 | 66 F 914†   | 14.90    | 66 F 974†   | 15.50    | 66 F 994†    | 16.70    |
| 0-2000 | 66 F 915†   | 15.50    | 66 F 975†   | 16.20    | 66 F 995†    | 17.40    |
| 0-3000 | 66 F 916†   | 16.20    | 66 F 976†   | 16.80    | 66 F 996†    | 18.00    |
| 0-4000 | 66 F 917†   | 16.50    | 66 F 977†   | 17.20    | 66 F 997†    | 18.40    |
| 0-5000 | 66 F 918†   | 16.80    | 66 F 978†   | 17.50    | 66 F 998†    | 18.70    |

## DC MILLIVOLTMETERS

Self-contained up to and including 50 amps. Meters for 100 amps (50 millivolts) and up have switchboard type shunts, 5-ft. leads.

| Range | 2 1/2" Rnd. | NET EACH | 3 1/2" Rnd. | NET EACH | 4 1/2" Rect. | NET EACH |
|-------|-------------|----------|-------------|----------|--------------|----------|
| 0-1   | 66 F 510    | 10.90    | 66 F 440    | 11.60    | 66 F 460     | 12.80    |
| 0-5   | 66 F 511    | 11.80    | 66 F 441    | 12.30    | 66 F 461     | 13.50    |
| 0-10  | 66 F 512    | 11.80    | 66 F 442    | 12.30    | 66 F 462     | 13.50    |
| 0-15  | 66 F 513    | 11.80    | 66 F 443    | 12.30    | 66 F 463     | 13.50    |
| 0-30  | 66 F 514    | 11.80    | 66 F 444    | 12.30    | 66 F 464     | 13.50    |
| 0-50  | 66 F 515    | 11.80    | 66 F 445    | 12.30    | 66 F 465     | 13.50    |
| 0-100 | 66 F 516    | 11.80    | 66 F 446    | 12.30    | 66 F 466     | 13.50    |
| 0-200 | 66 F 517    | 11.80    | 66 F 447    | 12.30    | 66 F 467     | 13.50    |
| 0-500 | 66 F 518    | 19.40    | 66 F 448    | 20.10    | 66 F 468     | 21.30    |

## DC MICROAMMETERS

| Range     | 2 1/2" Rnd. | NET EACH | 3 1/2" Rnd. | NET EACH | 4 1/2" Rect. | NET EACH |
|-----------|-------------|----------|-------------|----------|--------------|----------|
| 0-20      | 66 F 054    | 19.40    | 66 F 049    | 20.00    | 66 F 065     | 21.20    |
| 0-50      | 66 F 055    | 16.40    | 66 F 050    | 16.00    | 66 F 066     | 18.20    |
| 0-100     | 66 F 056    | 14.30    | 66 F 051    | 14.90    | 66 F 067     | 16.10    |
| 0-200     | 66 F 057    | 12.20    | 66 F 052    | 12.90    | 66 F 068     | 14.10    |
| 0-500     | 66 F 058    | 11.70    | 66 F 053    | 12.20    | 66 F 069     | 13.40    |
| 50-0-50   | ...         | ...      | 66 F 084    | 14.90    | 66 F 094     | 16.10    |
| 100-0-100 | ...         | ...      | 66 F 085    | 12.90    | 66 F 095     | 13.40    |



NF-2C

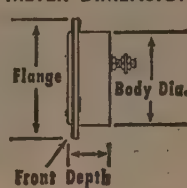


RF-2C

Rugged, reliable panel meters housed in black enamel steel cases, styled to give a prestige appearance to electrical equipment. Designed for long, trouble-free performance under the most severe conditions. DC types have "Hi-Torque" magnetic movements; AC meters are of the moving-iron type. Have screw terminal binding posts and lugs for soldered connections. Accurate to well within 5%. All meters are calibrated in their steel cases, so accuracy is not affected by mounting in panels constructed of magnetic metals. Model NF-2C (round); flange, 2 1/4"; overall depth, 1 1/2". Model RF-2C (square); flange, 2 1/4"; overall depth, 1 3/8". All meters are supplied complete with mounting brackets. Both models fit in 2 1/8" dia. hole. Av. shpg. wt., 9 oz.

## TRIPLETT PANEL METERS

### METER DIMENSIONS



### ROUND FLUSH MOUNTING

| Model No. | Flange | Body Dia. | Depth  | Scale Length |
|-----------|--------|-----------|--------|--------------|
| 221T      | 2 1/4" | 2 1/8"    | 1 5/8" | 1.76"        |
| 231S      | 2 1/4" | 2 1/8"    | 1 5/8" | 1.58"        |
| 321T      | 3 1/2" | 2 3/4"    | 1 3/8" | 2.49"        |
| 331S      | 3 1/2" | 2 3/4"    | 1 3/8" | 2.22"        |
| 361       | 3 1/2" | 2 3/4"    | 1 3/8" | 2.22"        |

### RECTANGULAR FLUSH MOUNTING

| Model No. | Flange          | Body Dia. | Depth  | Scale Length |
|-----------|-----------------|-----------|--------|--------------|
| 420       | 4 3/8" x 4 3/8" | 2 3/4"    | 2 3/8" | 4.04"        |
| 430       | 4 3/8" x 4 3/8" | 2 3/4"    | 2 3/8" | 3.6"         |

## AC VOLTMETERS

For 25 to 133 cycles. With external wire-wound series resistors.

| Range  | 2 1/2" Rnd. | NET EACH | 3 1/2" Rnd. | NET EACH | 4 1/2" Rect. | NET EACH |
|--------|-------------|----------|-------------|----------|--------------|----------|
| 0-10   | 66 F 251    | 11.40    | 66 F 201    | 12.10    | 66 F 231     | 12.80    |
| 0-50   | 66 F 254    |          | 66 F 204    |          | 66 F 234     |          |
| 0-100  | 66 F 255    |          | 66 F 205    |          | 66 F 235     |          |
| 0-150  | 66 F 256    | 12.50    | 66 F 206    | 13.10    | 66 F 236     | 13.80    |
| 0-250  | 66 F 260    | 13.10    | 66 F 210    | 13.80    | 66 F 240     | 14.40    |
| 0-500† | 66 F 258    | 17.80    | 66 F 208    | 18.50    | 66 F 238     | 19.10    |

## AC MILLIAMMETERS

| Range | 2 1/2" Rnd. | NET EACH | 3 1/2" Rnd. | NET EACH | 4 1/2" Rect. | NET EACH |
|-------|-------------|----------|-------------|----------|--------------|----------|
| 0-10  | 66 F 570    | 11.40    | 66 F 470    | 12.10    | 66 F 496     | 12.80    |
| 0-15  | 66 F 571    |          | 66 F 471    |          | 66 F 497     |          |
| 0-25  | 66 F 572    |          | 66 F 472    |          | 66 F 498     |          |
| 0-50  | 66 F 573    | 11.40    | 66 F 473    | 12.10    | 66 F 499     | 12.80    |
| 0-100 | 66 F 574    |          | 66 F 474    |          | 66 F 498     |          |
| 0-250 | 66 F 575    |          | 66 F 475    |          | 66 F 499     |          |
| 0-500 | 66 F 577    |          | 66 F 475    |          | 66 F 499     |          |

## AC AMMETERS

| Range | 2 1/2" Rnd. | NET EACH | 3 1/2" Rnd. | NET EACH | 4 1/2" Rect. | NET EACH |
|-------|-------------|----------|-------------|----------|--------------|----------|
| 0-1   | 66 F 340    | 11.40    | 66 F 300    | 12.10    | 66 F 330     | 12.80    |
| 0-5   | 66 F 343    |          | 66 F 303    |          | 66 F 333     |          |
| 0-10  | 66 F 344    |          | 66 F 304    |          | 66 F 334     |          |
| 0-15  | 66 F 347    |          | 66 F 308    |          | 66 F 338     |          |
| 0-25  | 66 F 348    |          | 66 F 305    |          | 66 F 335     |          |
| 0-50  | 66 F 346    | 11.40    | 66 F 306    | 13.30    | 66 F 336     | 14.50    |
| 0-75  | 66 F 345    |          | 66 F 307    |          | 66 F 337     |          |

## DC MILLIVOLTMETERS

| Range | 3 1/2" Rnd. | NET EACH | 4 1/2" Rect. | NET EACH |
|-------|-------------|----------|--------------|----------|
| 0-50  | 66 F 088    | 11.60    | 66 F 098     | 12.80    |
| 0-100 | 66 F 089    |          | 66 F 099     |          |

## TYPE 361 WATTMETERS

Electrodynamometer type. Useful as appliance testers, wattmeters, voltmeters and ammeters. Have 2% accuracy on DC and single-phase AC to 133 cps. 3 1/2" diameter flange. Barred dial, 2 1/2" depth, 2".

| Stock No. | Watts | Volts | Amps | NET EACH |
|-----------|-------|-------|------|----------|
| 66 F 280  | 0-150 | 150   | 1    | 26.40    |
| 66 F 285  | 0-300 | 150   | 2    |          |
| 66 F 287  | 0-750 | 150   | 5    |          |

## VOLUME UNIT METERS

Highly accurate—ideal for radio and TV stations. For 600-ohm audio lines. "A" scale, -20 to +3 volume units; also 0-100% scale. Steady state reference, 1 mw. Internal imp., 3900 ohms. Zero adjustment.

| Stock No. | Mfr's Type | Description                         | NET EACH |
|-----------|------------|-------------------------------------|----------|
| 66 F 071  | 420        | 4 1/2" rectangular with glass front | 26.40    |
| 66 F 072  | 420        | As above, except illuminated        | 30.00    |
| 66 F 897  | 321-PL     | 3 1/2" round with plastic front     | 21.00    |

## EMICO PANEL METERS

### DC AMMETERS

| Range   | Model NF-2C | Model RF-2C |
|---------|-------------|-------------|
| 0-5     | 66 F 974    | 66 F 975    |
| 0-10    | 67 F 618    | 67 F 618    |
| 0-25    | 67 F 976    | 67 F 977    |
| 3-0-3   | 67 F 651    | 67 F 657    |
| 20-0-20 | 67 F 652    | 67 F 658    |
| 30-0-30 | 67 F 653    | 67 F 659    |

### AC VOLTMETERS

| Range | Model NF-2C | Model RF-2C |
|-------|-------------|-------------|
| 0-15  | 67 F 665    | 67 F 670    |
| 0-150 | 67 F 666    | 67 F 671    |
| 0-300 | 67 F 667    | 67 F 672    |

### DC VOLTMETERS

| Range | Model NF-2C | Model RF-2C |
|-------|-------------|-------------|
| 0-3   | 67 F 630    | 67 F 635    |
| 0-10  | 67 F 632    | 67 F 637    |
| 0-30  | 68 F 980    | 68 F 981    |
| 0-50  | 68 F 982    | 68 F 983    |

### AC AMMETERS

| Range | Model NF-2C | Model RF-2C |
|-------|-------------|-------------|
| 0-5   | 67 F 646    | 67 F 648    |
| 0-10  | 67 F 647    | 67 F 649    |

### AC MILLIAMMETERS

| Range | Model NF-2C | Model RF-2C |
|-------|-------------|-------------|
| 0-500 | 67 F 640    | 67 F 643    |

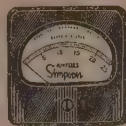


## RECTANGULAR PANEL METERS

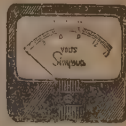
### METER DIMENSIONS

| Flange     | Body Dia. | Body Depth | Scale Lgth. |
|------------|-----------|------------|-------------|
| 3.12x3.00" | 2.75"     | 1.36"      | 2.56"       |
| 4.20x4.66" | 2.75"     | 1.00"      | 3.91"       |
| 3.12x3.00" | 2.75"     | 1.36"      | 2.56"       |
| 4.20x4.66" | 2.75"     | 1.00"      | 3.91"       |
| 3.12x3.00" | 2.75"     | 1.36"      | 2.56"       |
| 4.20x4.66" | 2.75"     | 1.00"      | 3.91"       |
| 3.12x3.00" | 2.75"     | 1.36"      | 2.56"       |
| 4.20x4.66" | 2.75"     | 1.00"      | 3.91"       |
| 3.12x3.00" | 2.75"     | 1.36"      | 2.56"       |
| 4.20x4.66" | 2.75"     | 1.00"      | 3.91"       |
| 3.12x3.00" | 2.75"     | 1.36"      | 2.56"       |
| 4.20x4.66" | 2.75"     | 1.00"      | 3.91"       |
| 3.12x3.00" | 2.75"     | 1.36"      | 2.56"       |
| 4.20x4.66" | 2.75"     | 1.00"      | 3.91"       |
| 3.12x3.00" | 2.75"     | 1.36"      | 2.56"       |
| 4.20x4.66" | 2.75"     | 1.00"      | 3.91"       |
| 3.12x3.00" | 2.75"     | 1.36"      | 2.56"       |
| 4.20x4.66" | 2.75"     | 1.00"      | 3.91"       |

Superior-quality panel meters excellent for use in communications equipment, measuring instruments, Ham gear, etc. AC types have iron-vane movement. DC types have the famous D'Arsonval full-bridge movement. All meters have recessed zero adjustments and rectangular cases. Spade-type pointers move through a scale arc of 100°. All have  $\pm 2\%$  accuracy, except VU and rectifier-type,  $\pm 5\%$ . Polished, shock-mounted jewels. Black bakelite cases. With mtg. hdw., template. AC and DC ammeters over 0-50 supplied less the external shunts (DC) or current transformers (AC) necessary to use meter on the listed range. Write for price and delivery information on these instruments, transformers, 1 lb. Include Range and Model No. on all orders.



2 1/2" & 3 1/2"  
Rectangular  
Meter



4 1/2"  
Rectangular  
Meter

### AC MILLIAMMETERS

| Model 157<br>2 1/2" Rect. | Model 57<br>3 1/2" Rect. | Model 58<br>4 1/2" Rect. | NET<br>EACH |
|---------------------------|--------------------------|--------------------------|-------------|
| 67 F 022                  | 67 F 565                 | 67 F 465                 |             |
| 67 F 023                  | 67 F 566                 | 67 F 466                 |             |
| 67 F 024                  | 67 F 567                 | 67 F 467                 | 13.50       |
| 67 F 025                  | 67 F 568                 | 67 F 468                 |             |

### AC VOLTMETERS

al multiplier resistors are furnished on Model 157, 57 and 59  
mmeters having a range of 0-500 volts.

| Model 157<br>2 1/2" Rect. | Model 57<br>3 1/2" Rect. | Model 58<br>4 1/2" Rect. | NET<br>EACH |
|---------------------------|--------------------------|--------------------------|-------------|
| 67 F 026                  | 67 F 558                 | 67 F 458                 |             |
| 67 F 028                  | 67 F 559                 | 67 F 459                 | 13.20       |
| 67 F 029                  | 67 F 551                 | 67 F 451                 |             |
| 67 F 030                  | 67 F 552                 | 67 F 452                 | 13.20       |
| 67 F 031                  | 67 F 553                 | 67 F 453                 |             |
| 67 F 032                  | 67 F 554                 | 67 F 454                 | 13.95       |
| 67 F 033                  | 67 F 555                 | 67 F 455                 | 13.95       |
| 67 F 034                  | 67 F 556                 | 67 F 456                 | 13.95       |
| 67 F 035                  | 67 F 557                 | 67 F 457                 | 17.40       |
| 67 F 036                  | 67 F 558                 | 67 F 458                 |             |

### AC AMMETERS

| Model 157<br>2 1/2" Rect. | Model 57<br>3 1/2" Rect. | Model 58<br>4 1/2" Rect. | NET<br>EACH |
|---------------------------|--------------------------|--------------------------|-------------|
| 67 F 037                  | 67 F 575                 | 67 F 475                 |             |
| 67 F 038                  | 67 F 577                 | 67 F 477                 | 13.50       |
| 67 F 039                  | 67 F 578                 | 67 F 478                 |             |
| 67 F 040                  | 67 F 579                 | 67 F 479                 |             |
| 67 F 041                  | 67 F 582                 | 67 F 482                 | 13.50       |
| 67 F 042                  | 67 F 580                 | 67 F 480                 | 14.10       |
| 67 F 043                  | 67 F 581                 | 67 F 481                 | 14.10       |
| 67 F 044                  | 67 F 581                 | 67 F 481                 | 13.50       |

### TIFER-TYPE AC VOLTMETERS—1000 OHMS PER VOLT

| Model 47<br>3 1/2" Rect. | NET<br>EACH | Model 49<br>4 1/2" Rect. | NET<br>EACH |
|--------------------------|-------------|--------------------------|-------------|
| 67 F 569                 |             | 67 F 490                 |             |
| 67 F 570                 | 17.25       | 67 F 491                 | 19.05       |
| 67 F 571                 |             | 67 F 492                 |             |
| 67 F 572                 |             | 67 F 493                 |             |
| 67 F 573                 | 17.25       | 67 F 494                 | 19.05       |
| 67 F 574                 |             | 67 F 495                 |             |

### VU METERS

ne level indicators for power amplifiers and broadcast equipment.  
level both in VU and percentage modulation. D'Arsonval move-  
ment. Highly damped. VU scale A, -20 to +3. 3900-ohm internal im-  
pedance across 600-ohm lines (zero reference, 1 milliwatt). \*Illuminated  
(25% deep). Av. shpg. wt., 1 1/4 lb.

\*597, Model 47, NET.....21.45  
\*599, \*Model 49, NET.....25.80

### MODEL 27 DC GALVANOMETERS

ide accurate indication of magnitude of small currents (in micro-  
A). Dimensions are listed in table at top of this page.

| Stock No. | Scale   | Micro-amps | Resistance | Shpg. Wt. | NET EACH |
|-----------|---------|------------|------------|-----------|----------|
| F 591     | 50-0-50 | 500-0-500  | 46 ohms    | 1 lb.     | 13.10    |
| F 592     | 50-0-50 | 75-0-75    | 2000 ohms  | 1 lb.     | 14.10    |

### MODEL 57ET ELAPSED-TIME METERS

Volt Type. Excellent for keeping life and  
ormance records based on operating time.  
ates when scheduled maintenance and proo-  
-ning. Has self-starting synchronous clock  
r. Counter indicates up to 9999.9 hours,  
s automatically registers back to 0. Matches  
erson standard 3 1/2" meters in appearance.  
e size, 3 1/2"x3"; body dia., 2 3/4"; body depth,  
". For operation from 120 volts, 60 cycle  
Shpg. wt., 2 lbs.

\*146, NET.....17.95  
-Volt Type. As above, but for 240 volts, 60 cycle AC.  
\*147, NET.....18.25

### MODEL 79 WATTMETERS

-contained, dynamometer-type. Movement employs sapphire jewels  
is air damped. Measure DC and single phase AC power to 250 cps.  
ensions are listed at top of page. Shpg. wt., 1 lb.

| Stock No. | Range—Watts | Max. Amps | Max. Volts | NET EACH |
|-----------|-------------|-----------|------------|----------|
| 68 F 812  | 0-75        | 1.0       | 150        | 33.00    |
| 68 F 813  | 0-300       | 4.0       | 150        | 33.00    |
| 68 F 814  | 0-1500      | 10.0      | 300        | 35.25    |
| 68 F 815  | 0-3000      | 20.0      | 300        | 35.25    |

### DC MILLIAMMETERS

| Range | Model 127<br>2 1/2" Rect. | NET<br>EACH | Model 27<br>3 1/2" Rect. | NET<br>EACH | Model 29<br>4 1/2" Rect. | NET<br>EACH |
|-------|---------------------------|-------------|--------------------------|-------------|--------------------------|-------------|
| 0-1   | 68 F 817                  |             | 67 F 520                 |             | 67 F 420                 |             |
| 0-5   | 68 F 823                  |             | 67 F 521                 |             | 67 F 421                 |             |
| 0-10  | 68 F 824                  | 11.25       | 67 F 522                 | 11.85       | 67 F 422                 | 13.05       |
| 0-15  | 68 F 827                  |             | 67 F 530                 |             | 67 F 430                 |             |
| 0-25  | 68 F 829                  |             | 67 F 523                 |             | 67 F 423                 |             |
| 0-50  | 68 F 831                  |             | 67 F 524                 | 12.45       | 67 F 424                 | 13.95       |
| 0-100 | 68 F 833                  | 12.00       | 67 F 525                 |             | 67 F 425                 |             |
| 0-150 | 68 F 835                  |             | 67 F 532                 |             | 67 F 426                 |             |
| 0-200 | 68 F 837                  |             | 67 F 526                 |             | 67 F 427                 |             |
| 0-250 | 68 F 839                  |             | 67 F 527                 | 12.45       | 67 F 433                 | 13.95       |
| 0-300 | 68 F 841                  | 12.00       | 67 F 528                 |             | 67 F 428                 |             |
| 0-500 | 68 F 839                  |             | 67 F 529                 |             | 67 F 429                 |             |

### DC VOLTMETERS

Approximate resistance: 30 to 300-v. units are 1000 ohms per volt; 500 to  
5000-v. units are 2000 ohms per volt. External multiplier resistors are  
furnished on Model 127 2 1/2", Model 27 3 1/2" and Model 29 4 1/2" DC  
volts having a range of 1000 volts or more.

| Range  | Model 127<br>2 1/2" Rect. | NET<br>EACH | Model 27<br>3 1/2" Rect. | NET<br>EACH | Model 29<br>4 1/2" Rect. | NET<br>EACH |
|--------|---------------------------|-------------|--------------------------|-------------|--------------------------|-------------|
| 0-3    | 68 F 841                  |             | 67 F 515                 |             | 67 F 415                 | 13.95       |
| 0-5    | 68 F 843                  |             | 67 F 516                 |             | 67 F 416                 |             |
| 0-10   | 68 F 845                  | 12.15       | 67 F 501                 | 12.60       | 67 F 402                 |             |
| 0-15   | 68 F 847                  |             | 67 F 502                 |             | 67 F 403                 |             |
| 0-25   | 68 F 849                  |             | 67 F 517                 |             | 67 F 417                 | 13.95       |
| 0-50   | 68 F 851                  | 12.15       | 67 F 518                 | 12.60       | 67 F 418                 |             |
| 0-100  | 68 F 853                  |             | 67 F 519                 |             | 67 F 405                 |             |
| 0-150  | 68 F 855                  |             | 67 F 504                 |             | 67 F 406                 |             |
| 0-200  | 68 F 857                  | 12.15       | 67 F 505                 | 12.60       | 67 F 407                 | 13.95       |
| 0-300  | 68 F 859                  |             | 67 F 508                 |             | 67 F 408                 |             |
| 0-500  | 68 F 861                  | 12.90       | 67 F 509                 | 13.20       | 67 F 409                 | 14.40       |
| 0-1000 | 68 F 863                  | 16.05       | 67 F 510                 | 16.65       | 67 F 410                 | 18.30       |
| 0-2000 |                           |             | 67 F 511                 | 17.25       | 67 F 412                 | 18.90       |
| 0-3000 |                           |             | 67 F 512                 | 17.85       | 67 F 413                 | 19.50       |
| 0-5000 |                           |             | 67 F 513                 | 18.45       | 67 F 414                 | 20.10       |

### DC AMMETERS

| Range | Model 127<br>2 1/2" Rect. | NET<br>EACH | Model 27<br>3 1/2" Rect. | NET<br>EACH | Model 29<br>4 1/2" Rect. | NET<br>EACH |
|-------|---------------------------|-------------|--------------------------|-------------|--------------------------|-------------|
| 0-1   | 68 F 865                  |             | 67 F 535                 |             | 67 F 435                 | 13.80       |
| 0-5   | 68 F 871                  |             | 67 F 538                 |             | 67 F 438                 |             |
| 0-10  | 68 F 873                  | 12.00       | 67 F 539                 | 12.45       | 67 F 439                 | 13.80       |
| 0-25  | 68 F 877                  |             | 67 F 540                 |             | 67 F 440                 |             |
| 0-50  | 68 F 879                  |             | 67 F 542                 |             | 67 F 442                 |             |
| 0-100 | 68 F 881                  | 11.55       | 68 F 803                 | 12.00       | 68 F 806                 | 13.50       |
| 0-150 | 68 F 862                  |             | 68 F 804                 |             | 68 F 807                 |             |
| 0-200 | 68 F 883                  |             | 68 F 863                 |             | 68 F 864                 |             |

### DC MICROAMMETERS

| Range     | Model 27<br>3 1/2" Rect. | NET<br>EACH | Model 29<br>4 1/2" Rect. | NET<br>EACH |
|-----------|--------------------------|-------------|--------------------------|-------------|
| 0-15      | 68 F 808                 | 22.05       | 68 F 809                 | 24.15       |
| 0-25      | 67 F 544                 | 19.65       | 67 F 444                 | 21.75       |
| 0-50      | 67 F 545                 | 16.65       | 67 F 445                 | 18.00       |
| 0-100     | 67 F 546                 | 14.55       | 67 F 446                 | 16.35       |
| 0-200     | 67 F 547                 | 13.05       | 67 F 447                 | 14.55       |
| 0-500     | 67 F 548                 | 12.45       | 67 F 448                 | 13.95       |
| 25-255    | 67 F 684                 | 16.80       | 67 F 691                 | 13.95       |
| 50-505    | 67 F 685                 | 14.70       | 67 F 692                 | 16.50       |
| 100-1005  | 67 F 686                 | 13.20       | 67 F 693                 | 14.85       |
| 500-0-500 | 67 F 687                 | 12.00       | 67 F 694                 | 13.20       |

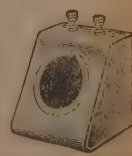
### RF AMMETERS (INTERNAL THERMOCOUPLE TYPE)

For measuring RF currents in commercial and Ham transmitters. Fre-  
quency range, 10 cps to 40 mc. Impedance varies from 2000 ohms (0-1  
scale) to .039 ohms (0-5 scale).

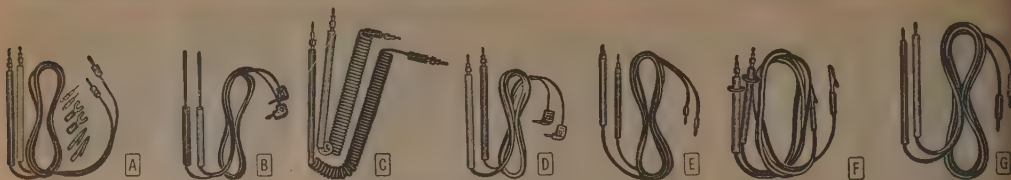
| Range | Model 37<br>3 1/2" Rect. | NET<br>EACH | Model 39<br>4 1/2" Rect. | NET<br>EACH |
|-------|--------------------------|-------------|--------------------------|-------------|
| 0-1   | 67 F 585                 |             | 67 F 487                 |             |
| 0-2   | 67 F 587                 | 14.10       | 67 F 488                 | 16.35       |
| 0-3   | 67 F 588                 |             | 67 F 489                 |             |
| 0-5   | 67 F 589                 |             |                          |             |

### UNIVERSAL METER CASE

Excellent for housing auxiliary test and measure-  
ment meters. Designed for use with 2" or 3" meters.  
Front panel accommodates a 2" meter; convenient  
knockout ring enlarges hole to take a 3" meter. Has  
a one-piece back and bottom attached with two  
screws. Red multi-purpose binding posts take  
wires, phone tips and have a built-in rack in head.  
Black wrinkle finish. Size, 4 1/4"x4 1/4" without posts.  
Shpg. wt., 1 1/4 lb.  
66 F 506, NET.....1.49



# Test Leads, Prods, Glow Testers, Rectifiers and Meters



## G-C ELECTROCRAFT TEST LEADS

**A** Type 33-450 Test Lead Kit. Includes 1 black and 1 red plastic handle with tip plugs and 50' flexible cables and alligator clips, spade plugs and phono tip plugs which fit standard banana plug at other end of lead. Shpg. wt., 4 oz.  
50 F 689. NET.....1.76

**B** Type 33-452 Test Lead Kit. Features 6' break-resistant test prod with interchangeable phono needle type tips; spade plugs, alligator clips and phono tip plug fit on banana plug end. Prod consists of 1 red and 1 black. Shpg. wt., 4 oz.  
50 F 696. NET PER PAIR.....1.76

**C** Type 33-464 Long Reach Test Leads. 50' insulated, kink-proof cables; one end has 5' insulated test prod with very thin extension, other end has meter-type insulated tip plug, 1 each red and black. 4 oz.  
50 F 697. NET PER PAIR.....1.23

**D** Type 33-466 Heavy Duty Test Leads. 50' flexible, kink-proof cable, 7 1/2' long test prod with solderless wire connections, other end has solderless straight tip plugs. Pair of 1 red and 1 black. Shpg. wt., 4 oz.  
50 F 690. NET PER PAIR.....1.09

**C** Type 33-470 Stretch Leads. No-kink-no-tangle test leads. 9' coil extends to 6 feet. 6' Tenite prod handles. Pointed phone tips both ends. Shpg. wt., 4 oz.  
42 F 355. NET PER PAIR.....2.91

**D** Type 33-468 6000-v. Insulation. 6' durable Tenite prods with pointed phone tips. Angle phone tips on connector ends. 50' leads. Shpg. wt., 4 oz.  
42 F 358. NET PER PAIR.....1.23

**E** Type 33-460 Needle Tipped, Insulation-Piercing. (Not illus.) Prods have needle type chuck and needle points for piercing insulation. All metal connector ends. 50' leads. Shpg. wt., 4 oz.  
42 F 359. NET PER PAIR.....1.15

**F** Type 33-462. (Not illustrated). Same as Type S459 above but equipped with angle phone tips on connector ends instead of the pointed phone tips. Shpg., 4 oz.  
42 F 360. NET PER PAIR.....1.32

**E** Type 33-454 Slender Pencil. 5' long test prod made of durable Tenite with 50' kinkless leads. Have pointed phone tips on prod end; heavy-duty phone tips on connector end. Shpg. wt., 4 oz.  
42 F 356. NET PER PAIR......73c

**F** Type 33-476 HV Test Leads. 48' long flexible, heavy-duty, rubber-covered leads 3/4" thick. One red, one black. Pointed phone tip prods; alligator clip ends. Special finger-guard prod handles. 5' long. 22,000-volt breakdown at 60 cycles. Shpg. wt., 4 oz.  
42 F 352. NET PER PAIR.....2.35

## KLIPZON TEST PRODS AND LEADS

**G** Prods equipped with clip-tip which holds on to wire, lug, etc.; leaving both hands free. 4 1/2" handles. 4 leads. Av. wt., 4 oz.

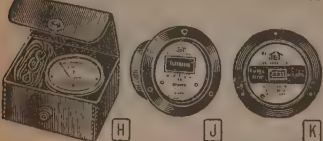
| Stock No. | Type   | Description                                      | PR.  |
|-----------|--------|--------------------------------------------------|------|
| 42 F 362  | 33-480 | Klipzon tips both ends                           | 1.91 |
| 42 F 363  | 33-482 | Klipzon tips and plain phone tip connectors      | 1.47 |
| 42 F 364  | 33-484 | Klipzon phone tip prods; banana plug connectors. | 1.91 |

## KLIPZON JUMPER LEADS

(Not illus.) 2 wire leads with Klipzon phone-tip mini-prods at each end. Av. wt., 4 oz.

| Stock No. | Type   | Color | Length | PER PAIR |
|-----------|--------|-------|--------|----------|
| 42 F 369  | 33-510 | Red   | 12"    | .59      |
| 42 F 370  | 33-512 | Black | 12"    | .59      |
| 42 F 371  | 33-514 | Red   | 24"    | 1.09     |
| 42 F 372  | 33-516 | Black | 24"    | 1.09     |

## J-B-T SPECIALIZED METERS



**H** Model 33-JP-1 Temperature Meter. This high-accuracy, portable pyrometer is an extremely valuable aid in testing and adjusting thermostats in ovens and other appliances. 2 1/2" scale reads from 0 to 650°F. in 10° divisions. Black metal panel. With 5 1/2-ft. calibrated thermocouple, clip, convection shield, pocket-sized leather case. 4 1/2"x2 1/2"x1 1/4". Shpg. wt., 2 1/4 lbs.  
66 F 698. NET.....26.00

**J** AC Frequency Meters. Rugged, extremely accurate; use 9 reeds. Accuracy  $\pm 0.3\%$  at 77°F. Flush panel, MIL-M-6A mtg. Flange. 3 1/2"; body dia., 2 1/4"; depth, 2 3/4". Have molded case. For 110-130 volts.

**Model 34-FX.** Range: 56-64 cycles. Freq. in 1-cycle steps. Power consumption, 1 watt; 110 ohms per volt. Shpg. wt., 12 oz.  
66 F 695. NET.....27.25

**Model 33-FX.** Range: 380-420 cycles. Freq. in 1-cycle steps. Power consumption, 1.5 watts; 50 ohms per volt. Shpg. wt., 12 oz.  
66 F 694. NET.....34.10

**K** Model 31-EX Elapsed Time Meter. A self-starting, synchronous instrument to record operating time of AC electrical and electronic equipment. Registers in one-tenth hour steps to 9999.9 hours, then automatically resets. Flange, 3 1/2"; mounts in 2 1/4" dia. hole; depth, 3 1/4". For operation from 100-120 v., 60 cycle AC. Shpg. wt., 1 1/4 lbs.  
66 F 689. NET.....15.95

## STERLING BATTERY TESTERS



Pocket-size battery testers in watch-type nickel-finished cases. May be used in all types of battery testing, in railroad signal work, for photo flash purposes, and in telephone and low-voltage electrical work. Durable and accurate—extremely practical for the service shop and battery sales counter. Correctly load small batteries. With lead, 2 1/4" dia., 3/4" thick. Shpg. wt., 6 oz.

| Stock No. | Type | Scales       | For Batteries   | NET      |
|-----------|------|--------------|-----------------|----------|
| 78 F 024  | 37A  | 0-2-50V      | 1 1/2V 45V      | 2.35     |
| 78 F 025  | 38A  | 0-2-100V     | 1 1/2V 90V      | 2.50     |
| 78 F 026  | 39A  | 0-2-150V     | 1 1/2V 90, 135V | 2.50     |
| 78 F 027  | 40A  | 0-10-150V    | 4 1/2V 90, 135V | 2.65     |
| 78 F 028  | 24   | 0-35A        | No. 6 Dry Cells | 1.96     |
| 78 F 029  | 34C  | 0-50V        | .....           | 45V 2.28 |
| 78 F 030  | 45   | 0-35A, 0-50V | No. 6           | 45V 2.94 |

**Type 31A.** For hearing aid batteries. Tests 2 1/2, 30 or 45-v. "B" and 1 1/2-v. "A" batteries. 0-2, 0-50 v. scales. With load, 6 oz.  
78 F 031. NET.....2.65

## AMF PRO-GLO CONTINUITY TESTER



New, easy-to-use, glow-type tester; checks continuity, shorts, grounds and open circuits in switches, relays, fuses, thermostats, etc. A handy addition to any tool box. Dim light indicates poor connection—no light when resistance exceeds 2 ohms. For checking dead circuits only. Overall length, 5 1/2". Dia., 3/4". With bulb; less Type AA penlight cell. Shpg. wt., 2 oz.  
78 F 052. NET......99c

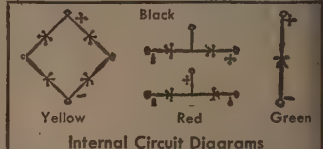
## SITTLER LOW-VOLTAGE TESTER



**Type T202.** Extremely handy low voltage tester. Indicates voltages from 5 volts to 50 volts AC-DC. Useful for testing low-voltage circuits in automobiles, telephones, batteries, radio and TV filament circuits, etc. Uses incandescent lamp. Has red and black leads with alligator clips for easy identification and use. Applications everywhere. Shpg. wt., 3 oz.  
42 F 406. NET EACH......99c

**Type T203.** Similar to above, but tests 2 1/2 to 24 volts, AC-DC.  
42 F 407. NET EACH......99c

## CONANT INSTRUMENT RECTIFIERS



Max. AC input, all units, 5 volts. Series 500: Up to 100 ma max. 60 ma DC forward. Reverse v., 2.25 v. DC. Response, 0-1 mc. Dia., .500", with .166" center hole. .038" thick. Copper oxide with 24K gold contacts. 3' leads. 6-32 Phillips head mtg. screw. Series 160: For up to 10 ma max. 10 ma DC forward. Reverse voltage, 2.25 v. DC. Response, 0-75 mc. Dia., .166", .038" thick. Copper oxide with 24K gold contacts. 3' leads, 2 holes for No. 2 mtg. screws. Sealed in housing with polystyrene base. Series 160-C: Same as Series 160 except housed in welded brass case. Av. shpg. wt., 5 oz.

| Stock No.      | Type  | Series | Body Color | No. of Terms. | Av. Output<br>DC MA | NET EACH |
|----------------|-------|--------|------------|---------------|---------------------|----------|
| 68 F 041 M     | 500   | Yellow | 4          | 100           | 2.06                |          |
| 68 F 043 HS    | 500   | Black  | 3          | 50            | 1.50                |          |
| 68 F 047 T     | 500   | Red    | 3          | 50            | 1.50                |          |
| 68 F 042 H     | 500   | Green  | 2          | 50            | 1.18                |          |
| 68 F 040 B     | 160   | Yellow | 4          | 10            | 2.06                |          |
| 68 F 044 BHS   | 160   | Black  | 3          | 5             | 1.50                |          |
| 68 F 046 BT    | 160   | Red    | 3          | 5             | 1.50                |          |
| 68 F 037 BH    | 160   | Green  | 2          | 5             | 1.18                |          |
| 68 F 038 B-C   | 160-C | Yellow | 4          | 10            | 2.06                |          |
| 68 F 045 BHS-C | 160-C | Black  | 3          | 5             | 1.50                |          |
| 68 F 048 BT-C  | 160-C | Red    | 3          | 5             | 1.50                |          |
| 68 F 049 BH-C  | 160-C | Green  | 2          | 5             | 1.18                |          |

**INSTRUMENT RECTIFIERS.** Handbook by H. B. Conant. Graphs, curves, other data.  
37 K 170. Postpaid in U.S.A.....15c

## G-C NEO-O-LITE



Convenient, versatile neon glow tube tester. Indicates voltages from 60 v. AC and 90 v. DC to 500 v. AC-DC. Excellent for finding "hot" AC leads, checking fuses and spark plugs, appliance repair, etc. Neon bulb is mounted in insulating holder. 5' insulated leads with phone tip ends. Shpg. wt., 3 oz.

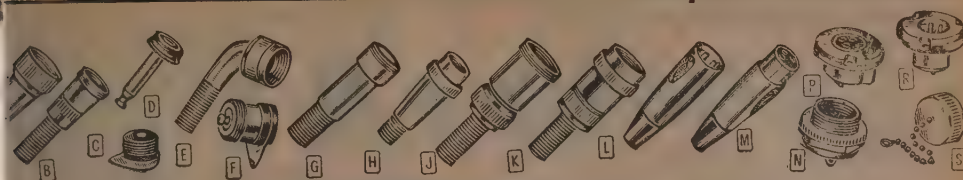
78 F 055. NET EACH......44c  
10 or More, EACH......39c

## EMICO AC VOLTAGE TESTER



Handy, easy-to-use AC line-voltage tester. Use to detect low line voltage, a common source of TV troubles. 2-prong male plug fits all conventional outlets. 90° swivel head permits easier readings from any position. Range, 0-150 volts. Clearly calibrated. Easy-to-read 2" meter has damped movement. Accuracy  $\pm 5\%$  of full scale. Has metal case. Shpg. wt., 8 oz.  
67 F 626. NET.....3.38





## MICROPHONE CONNECTORS

microphones listed in this catalog are supplied less connector. This complete selection of Amphenol connectors—you'll find to meet any application. Precision construction assures con-

nections free from noise, leaks or shorts. **Note:** Type 75-MC1F (Fig. A) fits all Knight PA Amplifiers. When splicing 2 cords, use one 75-MC1F and one 75-MC1M connector for a strong, reliable joint.

### SERIES 75 SINGLE BUTTON CONTACT TYPES

rd connectors 3/4", 27 threads; 3/4" mounting holes. †Indicates rd connectors that are approximately half the size and weight of rd counterparts with same specifications. Av. shpg. wt., 3 oz.

| No. | Type       | Fig. | Description                        | NET  |
|-----|------------|------|------------------------------------|------|
| 958 | 75-MC1F    | A    | Combination cable plug & jack      | .44  |
| 959 | 75-MC1M    | B    | Cable plug                         | .40  |
| 965 | 75-PC1M    | C    | Chassis receptacle, non-shorting   | .35  |
| 962 | 75-MC1P    | D    | Phone plug adapter                 | .48  |
| 959 | 75-MC1FA   | E    | 90° angle cable jack               | 1.23 |
| 967 | 75-CL-PC1M | F    | Chassis receptacle, closed circuit | .50  |
| 659 | 175-2      | A    | Straight plug                      | .26  |
| 660 | 175-3      | B    | Cable jack                         | .28  |
|     |            | F    | Locknut receptacle                 | .32  |

### SERIES 80 SINGLE & DOUBLE PIN CONTACT TYPES

ielded cables, single and two conductor coaxial cables, etc. Center ts are pin and socket type. \*Single-contact type. †Polarized, -contact type. Av. shpg. wt., 3 oz.

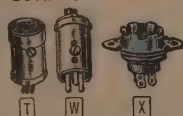
| No. | Type      | Fig. | Description               | NET |
|-----|-----------|------|---------------------------|-----|
| 584 | *80-C     | N    | Female chassis receptacle | .56 |
| 561 | *80-C1    | N    | Male chassis receptacle   | .57 |
| 562 | *80-F     | G    | Female cable jack         | .52 |
|     | *80-F1    | H    | Female cable plug         | .52 |
| 581 | *80-M     | H    | Male cable plug           | .60 |
| 563 | *80-M1    | G    | Male cable jack           | .49 |
| 582 | *80-MC2F  | G    | Female cable plug         | .66 |
| 564 | *80-MC2F1 | H    | Female cable jack         | .66 |
| 583 | *80-MC2M  | H    | Male cable plug           | .64 |
| 584 | *80-MC2M1 | G    | Male cable jack           | .50 |
| 585 | *80-PC2F  | N    | Female chassis receptacle | .57 |
| 566 | *80-PC2M  | N    | Male chassis receptacle   | .57 |

type 75-CCC1 Cap and Chain. Seals open chassis units against t and dust. Chain has eye for securing to panel. Used with both 85 and 80 receptacles. Shpg. wt., 3 oz.

381. NET.....42c

### SERIES 91 MINIATURE CABLE CONNECTORS

act connectors for shielded or unshielded. Polarized contacts prevent incor- sion. For cables up to 3/4" dia. Last in Type No. indicates: L, long (1 1/4"); rt (3/4"). Last fig. in Type No. denotes sta. PCG—chassis type. Figs. T and X male types; Fig. W, male types. Av. wt., 2 oz.



| No. | Type     | Fig. | NET  | Stock No. | Type     | Fig. | NET  |
|-----|----------|------|------|-----------|----------|------|------|
| 320 | 91-MPF3  | T    | .38c | 40 H 574  | 91-MPM4S | W    | .34c |
| 321 | 91-MPF3S | T    | .42c | 40 H 570  | 91-MPM5L | W    | .39c |
| 321 | 91-MPF4L | T    | .42c | 40 H 328  | 91-MPM6L | W    | .41c |
| 572 | 91-MPF4S | T    | .36c | 40 H 330  | 78-PCG-3 | X    | .19c |
| 325 | 91-MPM3L | W    | .35c | 40 H 331  | 78-PCG-4 | X    | .23c |
| 573 | 91-MPM3S | W    | .33c | 40 H 332  | 78-PCG-5 | X    | .23c |
| 326 | 91-MPM4L | W    | .36c | 40 H 333  | 78-PCG-6 | X    | .27c |

### SERIES 133 PRINTED CIRCUIT CONNECTORS

son connectors for printed circuit ets. Printed circuit board acts as male part- nector. Molded of diallyl phthalate di- ic; has gold plated contacts. Accepts .007 71" printed circuit boards. \*Polarizing Av. shpg. wt., 2 oz.



| No. | Type       | Contacts | NET  | Stock No. | Type       | Contacts | NET  |
|-----|------------|----------|------|-----------|------------|----------|------|
| 090 | 143-06-01  | 6        | 1.17 | 40 H 501  | 143-018-01 | 18       | 1.82 |
| 503 | 143-06-10  | 10       | 1.71 | 40 H 502  | 143-022-01 | 22       | 2.07 |
| 675 | 143-012-01 | 12       | 2.11 | 42 H 676  | 143-953    | *        | 2.07 |
| 500 | 143-015-01 | 15       | 1.50 |           |            |          |      |

### SERIES 133 PRINTED CIRCUIT PLUGS

ching plugs for standard 143 series printed ct connectors above. Have molded diallyl- valate dielectric body, cadmium-plated- e guide pins, and cadmium-plated end caps- brass contacts with gold-over-aluminum plat- Rugged contacts are not subject to damage- ating or unmating at an angle. Average voltage rating, 2300 volts at sea level; current rating meets or surpasses any printed circuit requirement. Av. shpg. wt., 2 oz.



| No.  | Type       | Contacts | NET  | Stock No. | Type       | Contacts | NET  |
|------|------------|----------|------|-----------|------------|----------|------|
| 1384 | 143-06-21  | 6        | 2.42 | 41 H 086  | 133-015-21 | 15       | 3.23 |
| 503  | 143-010-21 | 10       | 2.76 | 41 H 087  | 133-018-21 | 18       | 3.44 |
| 1390 | 143-012-21 | 12       | 3.42 | 41 H 088  | 133-022-21 | 22       | 3.69 |

### SERIES 91-3 AND 4-CONTACT TYPES

Microphone connectors for portable equipment. Polarized to prevent incorrect insertion. Clamps eliminate stress on soldered connections. \*3-contact type. †4-contact type. Shpg. wt., 3 oz.

| Stock No. | Type      | Fig. | Description               | NET  |
|-----------|-----------|------|---------------------------|------|
| 41 H 970  | *91-MC3F  | J    | Female cable jack         | .85c |
| 42 H 667  | *91-MC3F1 | K    | Female cable plug         | .93c |
| 41 H 971  | *91-MC3M  | K    | Male cable plug           | .88c |
| 42 H 668  | *91-MC3M1 | J    | Male cable jack           | .80c |
| 41 H 972  | *91-PC3F  | N    | Female chassis receptacle | .72c |
| 42 H 669  | *91-PC3M  | N    | Male chassis receptacle   | .82c |
| 41 H 977  | *91-MC4F  | J    | Female cable jack         | .89c |
| 42 H 670  | *91-MC4F1 | K    | Female cable plug         | .97c |
| 41 H 976  | *91-MC4M  | K    | Male cable plug           | .90c |
| 42 H 672  | *91-MC4M1 | J    | Male cable jack           | .82c |
| 41 H 978  | *91-PC4F  | N    | Female chassis receptacle | .70c |
| 42 H 673  | *91-PC4M  | N    | Male chassis receptacle   | .82c |

S Type 91-CCC3 Cap and Chain. Seals open chassis units from dust. Used for series 91 microphone connectors. Shpg. wt., 3 oz.

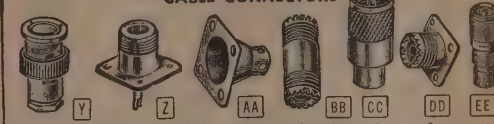
42 H 674. NET.....39c

### SERIES 91 "QUIK" 3 AND 4-CONTACT TYPES

Push together; released by slight pressure on lock button. Gold-plated (over silver) bronze contacts. Incorrect insertions are impossible because connectors are polarized. Satin-nickel plated, zinc-alloy shells. \*3-contact type. †4-contact type. Av. shpg. wt., 3 oz.

| Stock No. | Type    | Fig. | Description               | NET  |
|-----------|---------|------|---------------------------|------|
| 42 H 065  | *91-853 | L    | Male cable plug           | 1.35 |
| 42 H 066  | *91-854 | M    | Female cable plug         | 1.55 |
| 42 H 067  | *91-855 | R    | Male chassis receptacle   | 1.00 |
| 42 H 068  | *91-856 | P    | Female chassis receptacle | 2.22 |
| 42 H 069  | *91-857 | L    | Male cable plug           | 1.43 |
| 42 H 070  | *91-858 | M    | Female cable plug         | 1.96 |
| 42 H 071  | *91-859 | R    | Male chassis receptacle   | 1.04 |
| 42 H 072  | *91-860 | P    | Female chassis receptacle | 2.29 |

### CABLE CONNECTORS



Series 31 BNC Coaxial Connectors. Small weatherproof connector with bayonet coupling. Low-voltage single contact. \*F for 50-ohm RG-58/U and RG-58/U cables. †F for 70-ohm RG-59/U, FG-62/U and RG-71/U. Plugs mate with 31-003 or jacks. Av. wt., 3 oz.

| Stock No. | Military No. | Mfr's Type | Fig. | Description | NET EACH  |
|-----------|--------------|------------|------|-------------|-----------|
| 40 H 391  | UG-88/U      | 31-002*    | Y    | Plug        | 1.11 .93  |
| 40 H 393  | UG-89/U      | 31-005*    | Y    | Plug        | 1.20 1.00 |
| 40 H 396  | UG-260/U     | 31-012*    | Y    | Jack        | 1.18 .98  |
| 40 H 397  | UG-261/U     | 31-015*    | Y    | Jack        | 1.24 1.04 |
| 40 H 395  | UG-262/U     | 31-011*    |      | Panel Jack  | 1.25 1.07 |
| 40 H 392  | UG-280/U     | 31-003*    |      | Receptacle  | 1.02 .85  |
| 40 H 399  | UG-291/U     | 31-001*    |      | Panel Jack  | 1.27 1.05 |

Series 82 N Coaxial Connectors. Low-voltage. 50 ohms; \*70 ohms. Av. shpg. wt., 3 oz.

| Stock No. | Type      | Fig.   | Description            | NET EACH  |
|-----------|-----------|--------|------------------------|-----------|
| 40 H 313  | UG-218/U  | 82-61  | Plug for RG/U 8, 9, 10 | 1.91 1.59 |
| 40 H 320  | UG-27A/U  | 82-64  | Right-Angle Adapter    | 3.46 2.89 |
| 40 H 312  | UG-58/U   | 82-24* | Receptacle             | 1.22 1.02 |
| 40 H 319  | UG-107A/U | 82-36  | T Adapter              | 5.55 4.63 |

Series 83 UHF Coaxial Connectors. Small single contact. Widely used for RF applications. All exposed metal silver plated. Wt., 3 oz.

| Stock No. | Type                   | Fig.   | Description                              | NET EACH  |
|-----------|------------------------|--------|------------------------------------------|-----------|
| 40 H 357  | UG-106/U, M-380, 49193 | 83-1H  | AA For RG/U 8, 9, 10, 11, 12, 13, 63, 65 | .27 .25   |
| 40 H 356  | UG-363/U, PL-274       | 83-1F  | Feed-Through Connector                   | 1.68 1.25 |
| 40 H 354  | M-358, 49199           | 83-1T  | T Adapter                                | 2.64 2.20 |
| 40 H 355  | PL-258, 49191          | 83-1J  | BB Straight Adapter                      | 1.15 .96  |
| 40 H 350  | PL-259, 49190          | 83-1SP | CC For RG/U 8, 9, 10, 11, 12, 13, 63, 65 | .73 .61   |
| 40 H 352  | SO-239, 49194          | 83-1R  | DD Receptacle Chassis Type               | .75 .63   |

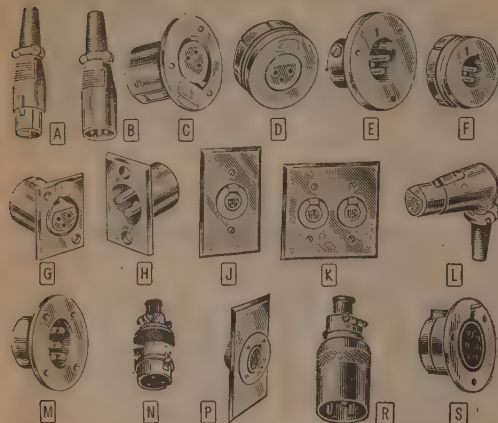
### Solderless Type UHF Plug Connectors.

| Stock No. | Type | Fig.   | Description                                   | NET EACH  |
|-----------|------|--------|-----------------------------------------------|-----------|
| 40 H 509  |      | 83-850 | EE Plug for RG/U 11                           | 1.38 1.15 |
| 40 H 510  |      | 83-851 | EE Plug for RG/U 8, 9, 10, 11, 12, 13, 63, 65 | 1.20 1.00 |

Allied stocks a complete line of Amphenol connectors; many are not listed in this catalog. Write, wire, or phone us for information.

# Cannon, Hubbell, Switchcraft, AH&H Connectors

## CANNON PLUGS AND RECEPTACLES



### TYPE XLR CONNECTORS

Audio connectors with clamp and resilient socket insulator. Minimize mechanical interference and reduce noise. Feature satin-nickel finish, integral cable clamp, neoprene cable retainer and push-action latchlock. First number in type column indicates number of contacts. -2G in Type No. indicates 2 gang. Available with three 15-ampere contacts, or four 10-ampere contacts. \*Wall-type receptacles; †panel-type receptacles. ‡Indicates steel shell, others are die-cast zinc. Av. shpg. wt., 4 oz.

### STRAIGHT CORD PLUGS

| Stock No. | Mfr's Type  | Fig. | Description            | NET  |
|-----------|-------------|------|------------------------|------|
| 40 H 790  | XLR-3-11C   | A    | Female (socket insert) | 1.29 |
| 41 H 212  | XLR-4-11C   | A    | Female (socket insert) | 1.64 |
| 40 H 983  | XLR-3-11SC† | A    | Female (socket insert) | 3.49 |
| 40 H 984  | XLR-4-11SC† | A    | Female (socket insert) | 3.55 |
| 40 H 791  | XLR-3-12C   | B    | Male (pin insert)      | 1.13 |
| 41 H 213  | XLR-4-12C   | B    | Male (pin insert)      | 1.20 |
| 40 H 985  | XLR-3-12SC† | B    | Male (pin insert)      | 2.68 |
| 40 H 986  | XLR-4-12SC† | B    | Male (pin insert)      | 2.87 |

### WALL AND PANEL RECEPTACLES

|          |              |   |                        |      |
|----------|--------------|---|------------------------|------|
| 41 H 214 | XLR-3-13†    | C | Female (socket insert) | 1.85 |
| 41 H 215 | XLR-4-13†    | C | Female (socket insert) | 1.93 |
| 41 H 216 | XLR-3-13†    | D | Female (socket insert) | 2.14 |
| 41 H 217 | XLR-4-13†    | D | Female (socket insert) | 2.20 |
| 41 H 218 | XLR-3-14†    | E | Male (pin insert)      | .83  |
| 41 H 219 | XLR-4-14†    | E | Male (pin insert)      | .87  |
| 41 H 223 | XLR-3-14†    | F | Male (pin insert)      | 1.73 |
| 41 H 224 | XLR-4-14†    | F | Male (pin insert)      | 1.87 |
| 40 H 792 | XLR-3-31*    | G | Female (socket insert) | 1.93 |
| 41 H 225 | XLR-4-31*    | G | Female (socket insert) | 1.99 |
| 40 H 793 | XLR-3-32*    | H | Male (pin insert)      | 1.10 |
| 41 H 226 | XLR-4-32*    | H | Male (pin insert)      | 1.22 |
| 40 H 987 | XLR-3-35*    | J | Female (socket insert) | 4.03 |
| 40 H 988 | XLR-3-35-2G* | K | Female (socket insert) | 7.42 |

### 90° PLUGS

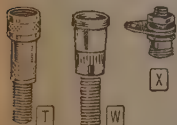
|          |          |   |                        |      |
|----------|----------|---|------------------------|------|
| 40 H 948 | XLR-3-15 | L | Female (socket insert) | 3.38 |
| 40 H 949 | XLR-4-15 | L | Female (socket insert) | 3.41 |

### TYPE P CONNECTORS

3-contact receptacles and cable connectors for audio circuits. For any size wires up to No. 10, 30 amp capacity per contact. Black phenolic insulation. \*Zinc with satin-chrome finish. †Steel shells and zinc cable clamp. ‡P3-13 with satin-chrome brass plate.

|          |            |   |                              |      |
|----------|------------|---|------------------------------|------|
| 40 H 707 | P3-13*     | S | Panel mount, female (socket) | 3.68 |
| 40 H 707 | P3-14*     | M | Panel mount, male (pin)      | 3.19 |
| 40 H 724 | P3-CG-11S† | N | Cable plug, female (socket)  | 2.16 |
| 40 H 701 | P3-CG-12S† | R | Cable plug, male (pin)       | 3.40 |
| 40 H 709 | P3-35‡     | P | Wall mount, female (socket)  | 5.74 |

## SWITCHCRAFT MINIATURE MIKE CONNECTORS



washers and 1/4" dia. mounting hole. Av. shpg. wt., 2 oz.

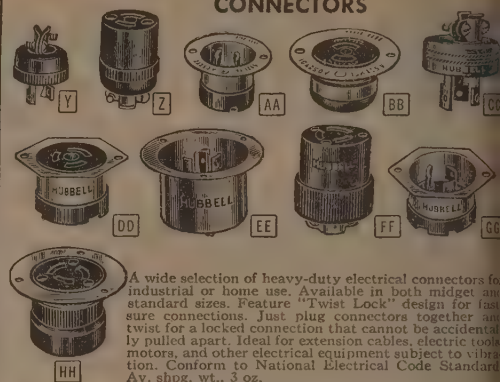
**[T]** Type 5501F. Straight connector with single contact, female type coupling ring. Bright nickel-plated brass. **35c**

**[W]** Type 5501M. Straight connector, single contact, male type. **26c**

**[X]** Type 5501MP. Panel connector with male P type single contact. Mounts by locknut on front of panel. Nickel-plated brass. **21c**

**[Y]** H 949. NET

## HARVEY HUBBELL "TWIST-LOCK" CONNECTORS



A wide selection of heavy-duty electrical connectors for industrial or home use. Available in both midsize and standard sizes. Feature "Twist Lock" design for fast, sure connections. Just plug connectors together and twist for a locked connection that cannot be accidentally pulled apart. Ideal for extension cables, electric tools, motors, and other electrical equipment subject to vibration. Conform to National Electrical Code Standard. Av. shpg. wt., 3 oz.

### MIDGET-SIZE CONNECTORS 2-WIRE NON-POLARIZED TYPES

Type 7428 male cap and Type 7427 female connector are of durable brown bakelite with metal cable clamps for 3/16 to 1/4" O.D. cords. Type 7466 male base and Type 7468 female base are of bakelite with metal housings. Rated 10 amps at 250 volts, or 15 amps at 125 volts.

| Stock No. | Mfr's Type | Fig. | Description      | NET EACH |
|-----------|------------|------|------------------|----------|
| 41 H 282  | 7428       | Y    | Male Cap         | .44      |
| 41 H 283  | 7427       | Z    | Female Connector | .80      |
| 41 H 284  | 7466       | AA   | Male Base        | .94      |
| 41 H 287  | 7468       | BB   | Female Base      | 1.14     |

### 3-WIRE POLARIZED TYPES

As above but for 3-conductor cables. Insulation is black bakelite. Clamps accept cords from .281 to .421" O.D. Polarization prevents wrong connection. Rated 10 amps at 250 v., or 15 amps at 115 v.

|          |      |    |                  |      |
|----------|------|----|------------------|------|
| 41 H 288 | 7485 | Y  | Male Cap         | 1.03 |
| 41 H 289 | 7484 | Z  | Female Connector | 1.49 |
| 41 H 290 | 7486 | AA | Male Base        | 1.32 |
| 41 H 291 | 7487 | BB | Female Base      | 1.61 |

### STANDARD SIZE CONNECTORS 3-WIRE POLARIZED TYPES

Type 7572 male cap, Type 7556 male base and Type 7557 female base have rust-resistant metal housings. Type 7555 female connector is bakelite. Clamps take cords from .296 to .562" O.D. All are rated 10 amps at 250 volts, or 15 amps at 125 volts.

| Stock No. | Mfr's Type | Fig. | Description      | NET EACH |
|-----------|------------|------|------------------|----------|
| 41 H 292  | 7572       | CC   | Male Cap         | 1.32     |
| 41 H 293  | 7555       | FF   | Female Connector | 1.94     |
| 41 H 294  | 7556       | GG   | Male Base        | 1.61     |
| 41 H 295  | 7557       | DD   | Female Base      | 1.78     |

### HEAVY-DUTY 3-WIRE POLARIZED TYPES

Type 7311 cap, Type 7327 male base and Type 7328 female base have metal housings. Type 7313 connector is bakelite. Clamps take .437 to .750" O.D. cords. Rated 20 amps at 250 v., 10 amps at 600 v. \*Armored.

|          |      |    |                  |      |
|----------|------|----|------------------|------|
| 41 H 296 | 7311 | CC | *Male Cap        | 1.76 |
| 41 H 297 | 7313 | FF | Female Connector | 2.71 |
| 41 H 298 | 7327 | EE | Male Base        | 2.09 |
| 41 H 299 | 7328 | HH | Female Base      | 3.21 |

## AH&H MIDGET CONNECTORS

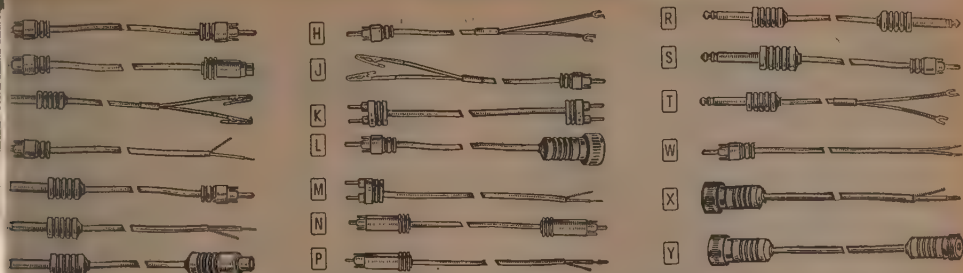


Midget 2-prong cord connectors and receptacles. Especially suited for applications where space is at a premium. Types illustrated in Figures JJ and KK have housings of durable molded bakelite. Others have rust-resistant metal housings and insulation of bakelite. All units are rated at 10 amperes at 250 volts. A 1" diameter hole is required for all receptacles. Contact spacing is 3/16". Receptacle terminals are exposed. All units have threaded covers. Types 80326 and 80328 are furnished with plate for screws. Types 80327 and 80329 are furnished with plate and lock ring. Av. shpg. wt., 3 oz.

| Stock No. | Mfr's Type | Fig. | Description             | NET  |
|-----------|------------|------|-------------------------|------|
| 52 H 721  | 80324      | JJ   | Male cable connector    | .67  |
| 52 H 722  | 80325      | KK   | Female cable connector  | .67  |
| 52 H 725  | 80326      | LL   | Female flush receptacle | .80  |
| 52 H 726  | 80328      | MM   | Male flush receptacle   | .89  |
| 52 H 727  | 80327      | NN   | Female flush receptacle | 1.33 |
| 52 H 728  | 80329      | PP   | Male flush receptacle   | 1.35 |



# Connector Cables, Connectors, Plugs



## LAB-TRONICS AUDIO CONNECTOR CABLES

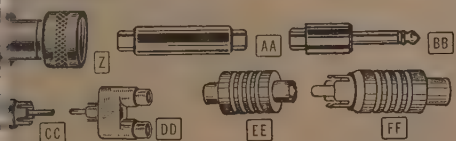
valuable accessories for trouble-free installation of hi-fi components. Cables are soldered prior to molding for noise-free connections.

Dual pin plugs on Figs. K and M are spaced  $\frac{1}{4}$ " (standard) for stereo use. Bare ends tinned. \*Indicates unshielded. Av. shpg. wt., 5 oz.

| Fig.      | Type | Description                                 | NET  |
|-----------|------|---------------------------------------------|------|
| 55 C101   | A    | 18"; pin plug on each end                   | .53  |
| 56 C102   | A    | 36"; pin plug on each end                   | .62  |
| 57 C103   | A    | 72"; pin plug on each end                   | .79  |
| 52 C104   | A    | 120"; pin plug on each end                  | 1.09 |
| 96 C202   | B    | 36"; pin plug one end, jack other end       | .71  |
| 57 C203   | B    | 72"; pin plug one end, jack other end       | .88  |
| 93 C204   | B    | 120"; pin plug one end, jack other end      | 1.18 |
| 57 P210*  | C    | 10"; phone plug one end, clips other end    | 1.15 |
| 54 P220*  | C    | 20"; phone plug one end, clips other end    | 1.44 |
| 70 C106   | D    | 36"; pin plug one end, bare other end       | .47  |
| 67 C107   | D    | 72"; pin plug one end, bare other end       | .65  |
| 94 C108   | D    | 120"; pin plug one end, bare other end      | .94  |
| 52 C4006  | E    | 72"; pin plug one end, phone plug other end | 1.09 |
| 96 C4410  | E    | 10"; pin plug one end, phone plug other end | 1.32 |
| 97 C4415  | E    | 15"; pin plug one end, phone plug other end | 1.62 |
| 53 C4006  | F    | 72"; phone plug one end, bare other end     | .94  |
| 66 C4010  | F    | 10"; phone plug one end, bare other end     | 1.18 |
| 98 C4015  | F    | 15"; phone plug one end, bare other end     | 1.47 |
| 50 C4006  | G    | 72"; phone plug one end, jack other end     | 1.68 |
| 54 C4010  | G    | 10"; phone plug one end, jack other end     | 1.85 |
| 95 C4615  | H    | 15"; phone plug one end, jack other end     | 2.15 |
| 56 P6110* | H    | 10"; pin plug one end, lugs other end       | .62  |
| 67 P6120* | H    | 20"; pin plug one end, lugs other end       | .91  |
| 55 P6210* | J    | 10"; pin plug one end, clips other end      | .85  |
| 68 P6220* | J    | 20"; pin plug one end, clips other end      | 1.15 |

| Stock No. | Type   | Fig. | Description                                 | NET  |
|-----------|--------|------|---------------------------------------------|------|
| 89 H 960  | SP8403 | K    | 36"; dual pin plug on each end              | 2.15 |
| 89 H 961  | SP8410 | K    | 10"; dual pin plug on each end              | 2.76 |
| 89 H 958  | E803   | L    | 36"; mike connector one end, pin plug other | 1.99 |
| 89 H 959  | E806   | L    | 72"; mike connector one end, pin plug other | 2.06 |
| 89 H 962  | SP8003 | M    | 36"; dual pin plug one end, bare other end  | 1.65 |
| 89 H 963  | SP8010 | M    | 10"; dual pin plug one end, bare other end  | 2.26 |
| 89 H 978  | S3415  | N    | 15"; pin plug on each end                   | 1.44 |
| 89 H 980  | S3015  | P    | 15"; pin plug one end, bare other end       | 1.25 |
| 89 H 981  | P7310  | R    | 10"; phone plug on each end                 | 1.35 |
| 89 H 982  | P7320  | R    | 20"; phone plug on each end                 | 1.65 |
| 89 H 983  | P7410  | S    | 10"; phone plug one end, pin plug other end | 1.06 |
| 89 H 984  | P7420  | S    | 20"; phone plug one end, pin plug other end | 1.35 |
| 89 H 985  | P7106  | T    | 72"; phone plug one end, lugs other end     | .79  |
| 89 H 986  | P7110  | T    | 10"; phone plug one end, lugs other end     | .91  |
| 89 H 987  | P7120  | T    | 20"; phone plug one end, lugs other end     | 1.21 |
| 89 H 988  | P6010  | W    | 10"; pin plug one end, bare other end       | .56  |
| 89 H 989  | P6020  | W    | 20"; pin plug one end, bare other end       | .97  |
| 71 H 292  | E1110  | X    | 72"; mike connector one end, bare other end | 1.26 |
| 71 H 293  | E1116  | X    | 10"; mike connector one end, bare other end | 1.36 |
| 89 H 751  | E1125  | X    | 25"; mike connector one end, bare other end | 2.26 |
| 71 H 294  | E906   | Y    | 72"; male mike conn. one end, female other  | 1.26 |
| 71 H 295  | E912   | Y    | 10"; male mike conn. one end, female other  | 1.68 |
| 41 H 911  | E925   | Y    | 25"; male mike conn. one end, female other  | 2.59 |
| 89 H 990  | E501*  | Y    | 10"; lugs on each end                       | .44  |
| 94 H 472  | P502*  | Y    | 20"; lugs on each end                       | .73  |

## LAB-TRONICS JACK ADAPTERS, CONNECTORS



C400 allows rapid connection of two lines with pin plug ends. P55A connection of standard pin plug to phone jack. MP is pin plug mike connector. C800 for two mike cables. Av. shpg. wt., 4 oz.

| Fig. | Mfr's Type | Description                          | NET EACH |
|------|------------|--------------------------------------|----------|
| 291  | C800       | Z Microphone Cable Connector         | .59      |
| 458  | C400       | AA Double-ended Phono Pin Jack       | .59      |
| 289  | P55A       | BB Phono Pin Jack; Phone Plug        | .59      |
| 290  | MP         | CC Mic; Phono Pin Plug               | .59      |
| 582  | A754       | DD 2 Phono Pin Jacks; Phono Pin Plug | 1.18     |
| 992  | A753       | EE Phone Jack; Phono Pin Jack        | 1.03     |
| 991  | A750       | FF Phone Jack; Phono Pin Plug        | 1.03     |

## 3-C ELECTROCRRAFT SOLDERLESS PHONO PLUGS

| No. | Type   | Shell | Stock No. | Type   | Shell  |
|-----|--------|-------|-----------|--------|--------|
| 091 | 33-776 | Gray  | 89 H 094  | 33-782 | Yellow |
| 092 | 33-778 | Black | 89 H 095  | 33-784 | Blue   |
| 093 | 33-780 | Red   |           |        |        |

EACH.....26c



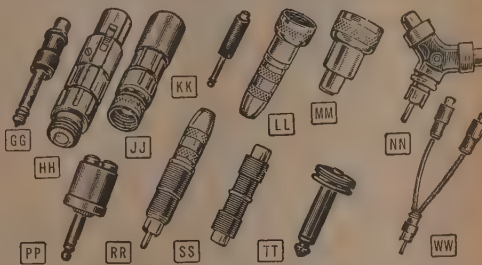
## AMPHENOL TYPE 71 MINIATURE PLUGS

act, efficient, high-dielectric plugs. Excellent for transmitters, receivers, intercoms, speaker connections, etc. Securely secured by pulled back insulation. Easily soldered. For use with up to six conductors. Contacts are polarized to assure correct connections. Fit Amphenol 78 S series miniature sockets on Amphenol socket page. Av. shpg. wt., 2 oz.



| Fig. | Mfr's Type | Prongs | NET EACH | Stock No. | Mfr's Type | Prongs | NET EACH |
|------|------------|--------|----------|-----------|------------|--------|----------|
| 177  | 71-3S      | 3      | 11c      | 41 H 149  | 71-5S      | 5      | 11c      |
| 169  | 71-4S      | 4      | 11c      | 40 H 179  | 71-6S      | 6      | 14c      |

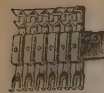
## SWITCHCRAFT ADAPTER-CONNECTORS



For quick, easy adaptation of plug to fit other type of jack on recorders, amplifiers, tuners, etc. Types 332A, 334A and 336A have  $\frac{1}{4}$ " O.D. Type 332A has coupling ring that can be screwed back, converting mike connector to male type. Av. shpg. wt., 6 oz.

| Stock No. | Type  | Fig.  | Description                                                                                        | NET  |
|-----------|-------|-------|----------------------------------------------------------------------------------------------------|------|
| 40 H 382  | 345A  | GG    | Phone plug out; phono jack in.                                                                     | .73  |
| 41 H 712  | 335   | HH    | 2 cond. — input has conn. Switchcraft 2501MP (Amphenol 75-MC1F) and output conn. Cannon XLR-3-11   | 1.73 |
| 41 H 713  | 339   | JJ    | As Type 335, but output conn. Switchcraft 2501F (Amphenol 75-MC1F) to input conn. Cannon XLR-3-12. | 1.73 |
| 41 H 460  | 343   | KK    | Phono jack input; phone plug output. Built-in limiting resistor for cord.                          | 1.15 |
| 41 H 768  | 332A  | LL    | 2-cond. phone jack input to female mike output; main body $\frac{1}{4}$ ".                         | 1.03 |
| 41 H 769  | 334A  | MM    | Phono jack input to female microphone connector output.                                            | .73  |
| 41 H 764  | 330F  | NN    | 2 phono jack connectors connected in parallel to standard phono plug.                              | 1.03 |
| 41 H 649  | 346   | PP    | Tip jack input to phone plug output. Built-in limiting resistor for cord.                          | 1.26 |
| 41 H 772  | 336A  | RR    | 2-conductor phone jack input to phone plug output; main body $\frac{1}{4}$ ".                      | .85  |
| 41 H 774  | 349A  | SS    | Phono plug output; main body $\frac{1}{4}$ ".                                                      | .56  |
| 41 H 657  | 44    | TT    | Adapts Amphenol Type 75-MC1F or 75-MC1F-A connectors for use with $\frac{1}{4}$ " phone jacks.     | .29  |
| 41 H 983  | 330F1 | WW    | Flexible Y-connector. 2 phono jacks to 1 phono plug. Shielded. 4"                                  | 1.20 |
| 41 H 609  | 342   | ..... | Dual-purpose binding post/banana jack input to phone plug output                                   | 1.53 |

# Cinch-Jones Strips, Terminals, Plugs, Sockets



## FANNING STRIPS

For neat, dependable terminal wiring. Insure positive connections. Strip assembly and disassembly. Last letter in Type No. indicates right or left mounting hole position. Laminated bakelite. .032" cadmium-plated brass. Av. shpg. wt., 3 oz.

Series 160. Fit Series 140 barrier terminals below. Terminals are mounted on  $\frac{1}{16}$ " bakelite,  $\frac{1}{16}$ " wide and on  $\frac{1}{8}$ " centers.

| Stock No. | Type    | Term. | NET EACH | Stock No. | Type    | Term. | NET EACH |
|-----------|---------|-------|----------|-----------|---------|-------|----------|
| 41 H 808  | 2-160L  | 2     | .08      | 40 H 956  | 2-160R  | 2     | .08      |
| 41 H 809  | 3-160L  | 3     | .13      | 40 H 957  | 3-160R  | 3     | .13      |
| 41 H 812  | 4-160L  | 4     | .16      | 40 H 958  | 4-160R  | 4     | .16      |
| 41 H 813  | 5-160L  | 5     | .21      | 40 H 959  | 5-160R  | 5     | .21      |
| 41 H 814  | 6-160L  | 6     | .25      | 40 H 960  | 6-160R  | 6     | .25      |
| 41 H 817  | 8-160L  | 8     | .34      | 40 H 961  | 8-160R  | 8     | .34      |
| 41 H 818  | 10-160L | 10    | .42      | 40 H 962  | 10-160R | 10    | .42      |
| 41 H 819  | 12-160L | 12    | .50      | 40 H 963  | 12-160R | 12    | .50      |

Series 161. Fit Series 141 barrier terminals below. Terminals are mounted on  $\frac{1}{16}$ " bakelite,  $\frac{1}{16}$ " wide and on  $\frac{1}{8}$ " centers.

|          |         |    |     |          |         |    |     |
|----------|---------|----|-----|----------|---------|----|-----|
| 41 H 822 | 2-161L  | 2  | .09 | 40 H 964 | 2-161R  | 2  | .09 |
| 41 H 823 | 3-161L  | 3  | .13 | 40 H 965 | 3-161R  | 3  | .13 |
| 41 H 824 | 4-161L  | 4  | .17 | 40 H 966 | 4-161R  | 4  | .17 |
| 41 H 827 | 5-161L  | 5  | .21 | 40 H 967 | 5-161R  | 5  | .22 |
| 41 H 828 | 6-161L  | 6  | .26 | 40 H 968 | 6-161R  | 6  | .26 |
| 41 H 829 | 8-161L  | 8  | .34 | 40 H 969 | 8-161R  | 8  | .34 |
| 41 H 832 | 10-161L | 10 | .43 | 40 H 970 | 10-161R | 10 | .43 |
| 41 H 833 | 12-161L | 12 | .51 | 40 H 971 | 12-161R | 12 | .51 |

Series 162. Fit Series 142 barrier terminals below. Terminals are mounted on  $\frac{1}{16}$ " bakelite,  $\frac{1}{16}$ " wide and on  $\frac{1}{8}$ " centers.

|          |         |    |     |          |         |    |     |
|----------|---------|----|-----|----------|---------|----|-----|
| 41 H 834 | 2-162L  | 2  | .11 | 40 H 972 | 2-162R  | 2  | .11 |
| 41 H 843 | 3-162L  | 3  | .19 | 40 H 973 | 3-162R  | 3  | .19 |
| 41 H 844 | 4-162L  | 4  | .23 | 40 H 974 | 4-162R  | 4  | .23 |
| 41 H 845 | 5-162L  | 5  | .23 | 40 H 975 | 5-162R  | 5  | .23 |
| 41 H 846 | 6-162L  | 6  | .28 | 40 H 976 | 6-162R  | 6  | .28 |
| 41 H 847 | 8-162L  | 8  | .36 | 40 H 977 | 8-162R  | 8  | .36 |
| 41 H 848 | 10-162L | 10 | .45 | 40 H 978 | 10-162R | 10 | .45 |
| 41 H 849 | 12-162L | 12 | .52 | 40 H 979 | 12-162R | 12 | .52 |

## BARRIER TERMINAL STRIPS



Barriers between each terminal provide increased insulation. Excellent for industrial and experimental applications. Barriers follow edge of strips and terminate at base. Make a long leakage path and prevent direct shorts caused by frayed wires at the terminals. Base is molded bakelite, with mounting holes at ends. Eyelets and binder screws of nickel-plated brass; terminals of hot tin-finish brass. Barrier-type terminals and fanning strips, when used together, insure positive contact and firm connections. No. 140 terminal strips have 5-40x $\frac{1}{16}$ " binder head screws,  $\frac{1}{16}$ " metal-to-metal spacing. No. 141 types have 6-52x $\frac{1}{16}$ " binder head screws,  $\frac{1}{16}$ " metal-to-metal spacing. No. 142 types have 7-32x $\frac{1}{16}$ " binder head screws,  $\frac{1}{16}$ " metal-to-metal spacing. Av. shpg. wt., 5 oz.

Series 140. Metal-to-metal spacing over bakelite  $\frac{1}{16}$ ". Base  $\frac{7}{16}$ " wide x  $\frac{1}{16}$ " high.  $\frac{1}{16}$ " centers. Use with Series 160 fanning strips.

| Stock No. | Mfr's Type | Term. | NET EACH | Stock No. | Mfr's Type | Term. | NET EACH |
|-----------|------------|-------|----------|-----------|------------|-------|----------|
| 41 H 580  | 1-140      | 1     | .09      | 41 H 806  | 12-140     | 12    | .67      |
| 41 H 800  | 2-140      | 2     | .14      | 41 H 584  | 13-140     | 13    | .73      |
| 41 H 801  | 3-140      | 3     | .20      | 41 H 585  | 14-140     | 14    | .79      |
| 41 H 803  | 4-140      | 4     | .25      | 41 H 586  | 15-140     | 15    | .84      |
| 41 H 807  | 5-140      | 5     | .31      | 41 H 587  | 16-140     | 16    | .89      |
| 41 H 802  | 6-140      | 6     | .35      | 41 H 588  | 17-140     | 17    | .94      |
| 41 H 581  | 7-140      | 7     | .41      | 41 H 589  | 18-140     | 18    | 1.00     |
| 41 H 804  | 8-140      | 8     | .46      | 41 H 590  | 19-140     | 19    | 1.05     |
| 41 H 582  | 9-140      | 9     | .52      | 41 H 591  | 20-140     | 20    | 1.10     |
| 41 H 805  | 10-140     | 10    | .57      | 41 H 592  | 21-140     | 21    | 1.16     |
| 41 H 583  | 11-140     | 11    | .62      |           |            |       |          |

Series 141. Metal-to-metal spacing over bakelite  $\frac{1}{16}$ ". Base  $1\frac{1}{4}$ " wide x  $\frac{1}{16}$ " high.  $\frac{1}{16}$ " centers. Use with Series 161 fanning strips.

|          |       |   |     |          |        |    |      |
|----------|-------|---|-----|----------|--------|----|------|
| 41 H 935 | 2-141 | 2 | .19 | 41 H 840 | 10-141 | 10 | .73  |
| 41 H 836 | 3-141 | 3 | .25 | 41 H 841 | 11-141 | 11 | .78  |
| 41 H 837 | 4-141 | 4 | .32 | 41 H 876 | 14-141 | 14 | 1.00 |
| 41 H 842 | 5-141 | 5 | .39 | 41 H 877 | 16-141 | 16 | 1.14 |
| 41 H 838 | 6-141 | 6 | .45 | 41 H 878 | 18-141 | 18 | 1.27 |
| 41 H 839 | 8-141 | 8 | .59 | 41 H 879 | 20-141 | 20 | 1.41 |

Series 142. Metal-to-metal spacing over bakelite  $\frac{1}{16}$ ". Base  $1\frac{1}{4}$ " wide x  $\frac{1}{16}$ " high.  $\frac{1}{16}$ " centers. Use with Series 162 fanning strips.

|          |        |    |     |          |        |    |      |
|----------|--------|----|-----|----------|--------|----|------|
| 41 H 670 | 2-142  | 2  | .22 | 41 H 680 | 12-142 | 12 | 1.06 |
| 41 H 671 | 3-142  | 3  | .32 | 41 H 681 | 13-142 | 13 | 1.14 |
| 41 H 672 | 4-142  | 4  | .39 | 41 H 682 | 14-142 | 14 | 1.22 |
| 41 H 673 | 5-142  | 5  | .47 | 41 H 683 | 15-142 | 15 | 1.31 |
| 41 H 674 | 6-142  | 6  | .55 | 41 H 684 | 16-142 | 16 | 1.39 |
| 41 H 676 | 8-142  | 8  | .72 | 41 H 686 | 17-142 | 17 | 1.47 |
| 41 H 678 | 10-142 | 10 | .89 |          |        |    |      |

## ADAPTER SOLDER TERMINALS



Adapt barrier strips (listed above) to permit top-side or underside solder connections. Type  $\frac{1}{4}$ " W permits top-side soldering to barrier terminals; Type Y is for underside solder connections. Made of brass; hot-tin finish. Assure positive solder connections. Fasten securely under binder head screws. Av. shpg. wt., 3 oz.

| TYPE $\frac{1}{4}$ " W |                       |            |          | TYPE Y    |            |            |          |
|------------------------|-----------------------|------------|----------|-----------|------------|------------|----------|
| Stock No.              | Mfr's Type            | For Series | NET EACH | Stock No. | Mfr's Type | For Series | NET EACH |
| 22 H 640               | $\frac{1}{4}$ " W-140 | 141        | .03      | 22 H 269  | Y-140      | 140        | .03      |
| 22 H 641               | $\frac{1}{4}$ " W-141 | 141        | .03      | 22 H 270  | Y-141      | 141        | .04      |
| 22 H 642               | $\frac{1}{4}$ " W-142 | 142        | .04      | 22 H 271  | Y-142      | 142        | .04      |



## SERIES 300 PLUGS & SOCKETS

Compact units rated 730 volts rms 10 amps. Metal caps; bakelite body. Phosphor-bronze socket contacts. Gage both sides of plug contacts. If contacts are polarized; plugs with 24 or 40 contacts have positioning pin. If contacts are  $\frac{1}{16}$ " wide by  $\frac{1}{16}$ " thick. \*Round shell, others rectangular. shpg. wt., 3 oz.

### TYPE AB FOR CHASSIS MOUNTING

| A PLUGS  |           |           |      | B SOCKETS |           |      |  |
|----------|-----------|-----------|------|-----------|-----------|------|--|
| Contacts | Stock No. | Type      | NET  | Stock No. | Type      | NET  |  |
| 2        | 40 H 870  | P-302-AB* | .19  | 40 H 880  | S-302-AB* | .19  |  |
| 3        | 40 H 871  | P-303-AB* | .27  | 40 H 881  | S-303-AB* | .27  |  |
| 4        | 40 H 872  | P-304-AB* | .33  | 40 H 882  | S-304-AB* | .33  |  |
| 6        | 40 H 873  | P-306-AB* | .39  | 40 H 883  | S-306-AB* | .39  |  |
| 8        | 40 H 874  | P-308-AB* | .43  | 40 H 884  | S-308-AB* | .43  |  |
| 10       | 40 H 875  | P-310-AB* | .45  | 40 H 885  | S-310-AB* | .45  |  |
| 12       | 40 H 876  | P-312-AB* | .50  | 40 H 886  | S-312-AB* | .50  |  |
| 14       | 40 H 877  | P-314-AB* | .54  | 40 H 887  | S-314-AB* | .54  |  |
| 18       | 40 H 817  | P-318-AB* | .82  | 40 H 865  | S-318-AB* | .82  |  |
| 21       | 40 H 818  | P-321-AB* | 1.03 | 40 H 866  | S-321-AB* | 1.03 |  |
| 24       | 40 H 819  | P-324-AB* | 1.25 | 40 H 867  | S-324-AB* | 1.25 |  |
| 27       | 40 H 820  | P-327-AB* | 1.47 | 40 H 868  | S-327-AB* | 1.47 |  |
| 30       | 40 H 821  | P-330-AB* | 1.69 | 40 H 869  | S-330-AB* | 1.69 |  |
| 33       | 40 H 822  | P-333-AB* | 1.90 | 40 H 877  | S-333-AB* | 1.90 |  |

### TYPE CCT WITH CABLE CLAMP

| C PLUGS  |           |            |      | D SOCKETS |            |      |  |
|----------|-----------|------------|------|-----------|------------|------|--|
| Contacts | Stock No. | Type       | NET  | Stock No. | Type       | NET  |  |
| 2        | 40 H 802  | P-302-CCT* | .46  | 40 H 852  | S-302-CCT* | .46  |  |
| 3        | 40 H 803  | P-303-CCT* | .53  | 40 H 853  | S-303-CCT* | .53  |  |
| 4        | 40 H 804  | P-304-CCT* | .59  | 40 H 854  | S-304-CCT* | .59  |  |
| 6        | 40 H 806  | P-306-CCT* | .65  | 40 H 856  | S-306-CCT* | .65  |  |
| 8        | 40 H 808  | P-308-CCT* | .69  | 40 H 858  | S-308-CCT* | .69  |  |
| 10       | 40 H 810  | P-310-CCT* | .73  | 40 H 860  | S-310-CCT* | .73  |  |
| 12       | 40 H 812  | P-312-CCT* | .77  | 40 H 862  | S-312-CCT* | .77  |  |
| 15       | 40 H 805  | P-315-CCT* | 1.03 | 40 H 850  | S-315-CCT* | 1.03 |  |
| 18       | 40 H 807  | P-318-CCT* | 1.25 | 40 H 851  | S-318-CCT* | 1.25 |  |
| 21       | 40 H 809  | P-321-CCT* | 1.47 | 40 H 855  | S-321-CCT* | 1.47 |  |
| 24       | 40 H 811  | P-324-CCT* | 1.73 | 40 H 857  | S-324-CCT* | 1.73 |  |
| 27       | 40 H 813  | P-327-CCT* | 1.97 | 40 H 859  | S-327-CCT* | 1.97 |  |
| 30       | 40 H 814  | P-330-CCT* | 2.22 | 40 H 861  | S-330-CCT* | 2.22 |  |
| 33       | 40 H 815  | P-333-CCT* | 2.45 | 40 H 863  | S-333-CCT* | 2.45 |  |

## SERIES 170 TERMINAL STRIPS



Have extra-heavy double-notched solder terminals. Ideal for industrial uses, labs, etc. Molded bakelite insulation. Mounting holes are  $\frac{3}{16}$ " from center of end terminals. Terminals .032" brass, tin plated. Av. shpg. wt., 5 oz.

| Stock No. | Type  | Term. | NET | Stock No. | Type   | Term. | NET |
|-----------|-------|-------|-----|-----------|--------|-------|-----|
| 40 H 990  | 1-170 | 1     | .16 | 40 H 995  | 6-170  | 6     | .33 |
| 40 H 991  | 2-170 | 2     | .20 | 40 H 996  | 7-170  | 7     | .38 |
| 40 H 992  | 3-170 | 3     | .23 | 40 H 997  | 8-170  | 8     | .42 |
| 40 H 993  | 4-170 | 4     | .27 | 40 H 998  | 9-170  | 9     | .47 |
| 40 H 994  | 5-170 | 5     | .32 | 40 H 999  | 10-170 | 10    | .50 |



## SERIES 2000 TERMINAL STRIPS

Terminals are made of .019" brass, tin-plated and spaced on  $\frac{1}{16}$ " centers. Molded bakelite insulation. Mounting brackets are made of cadmium-plated steel. Mounting holes at each end of bracket. Av. shpg. wt., 2 oz.

| Stock No. | Mfr's Type | Term. | Mtg. Ctrs. EACH        | Stock No. | Mfr's Type | Term. | Mtg. Ctrs. EACH        |
|-----------|------------|-------|------------------------|-----------|------------|-------|------------------------|
| 41 H 687  | 2002       | 2     | 1 $\frac{1}{16}$ " .07 | 41 H 691  | 2006       | 6     | 2 $\frac{1}{16}$ " .10 |
| 41 H 688  | 2003       | 3     | 1 $\frac{1}{16}$ " .07 | 41 H 693  | 2008       | 8     | 2 $\frac{1}{16}$ " .12 |
| 41 H 689  | 2004       | 4     | 1 $\frac{1}{16}$ " .08 | 41 H 695  | 2010       | 10    | 3 $\frac{1}{16}$ " .14 |
| 41 H 690  | 2005       | 5     | 1 $\frac{1}{16}$ " .09 | 41 H 697  | 2012       | 12    | 3 $\frac{1}{16}$ " .16 |



## CABLE CLAMPS

Cable clamps for fanning strips above. Made of nickel-plated brass, with 6-32 round head screws. Serve as strain relief and anchor cable securely. Sizes shown are I.D. Shpg. wt., 2 oz.

| Stock No. | Type     | Size            | NET | Stock No. | Type      | Size            | NET |
|-----------|----------|-----------------|-----|-----------|-----------|-----------------|-----|
| 41 H 852  | CC-161-4 | $\frac{1}{4}$ " | .12 | 41 H 857  | CC-161-10 | $\frac{1}{4}$ " | .12 |
| 41 H 853  | CC-161-6 | $\frac{1}{4}$ " | .13 | 41 H 858  | CC-161-12 | $\frac{1}{4}$ " | .13 |
| 41 H 854  | CC-161-8 | $\frac{1}{4}$ " | .13 | 41 H 859  | CC-161-14 | $\frac{1}{4}$ " | .13 |



## SERIES 101 PLUG AND SOCKET

Low-loss plug and socket for high frequency RF use. For coax or shielded cond. Cadmium-plated brass; prong contacts, silver-plated. Shpg. wt., 4 oz.

| Stock No. | Type  | Description           | NET | Stock No. | Type  | Description             | NET |
|-----------|-------|-----------------------|-----|-----------|-------|-------------------------|-----|
| 40 H 825  | P-101 | $\frac{1}{16}$ " Plug | .71 | 40 H 835  | S-101 | $\frac{1}{16}$ " Socket | .45 |



## SERIES 202 PLUGS AND SOCKETS

Cadmium plated brass plugs and sockets. Type P-202-CCT is polarized. Model mt. Type S-202-CCT has mounting holes. No. 40 drill at 1" centers. All units have  $\frac{1}{2}$ " thick. Type P-202-CCT and S-202-CCT-THR have cable clamp. Av. shpg. wt., 3 oz.

| Stock No. | Type          | Fig. | Description              | NET |
|-----------|---------------|------|--------------------------|-----|
| 40 H 980  | P-202-CCT     | E    | Plug, 2 contact          | .65 |
| 40 H 982  | S-202-B       | F    | Socket, chassis mounting | .77 |
| 40 H 981  | S-202-CCT-THR | G    | Socket, extension        | .88 |



# Amphenol Sockets, Shields and Plugs

## POPULAR STANDARD SOCKETS

### ACS SOCKET SHELL

23-1S. Lightweight metal shell for Type S and S sockets at except Type 49RSS7L. extension of sockets over or below chassis body dia. 1 1/4"; 2 1/2" mounting holes. Requires 1 1/4" mounting hole. Socket not supplied. 2. 5oz. 27. NET.....14c



### 3H-VOLTAGE OCTAL SOCKET

46-101. Rugged octal type sockets especially designed to maximum performance under high voltage contact conditions. Top-quality die-cast molded of durable arc Melamine. Constructed to mate octal tubes of any size diameter of 1 1/4" and a height of 1 1/2". Excellent for use with such as 5V4-G, 5U4-G, 6L6-G, etc. Two 3/4" holes are located on 2 1/2" centers. Require 1 1/2" diameter mounting hole. 4. 4oz. 88. NET.....88c



### 4-VOLTAGE 4-CONTACT SOCKET

46-812. Fourcontact, above mounting plate type socket for 4-voltage applications. Heat dissipation is aided by die-cast mounting plate. 4 mtg. holes on 2 1/2" mtg. requires 1 1/4" dia. mtg. hole. 1 1/2" dia. 4oz. 89. NET.....2.28



### HIGH-VOLTAGE 4-CONTACT SAFETY SOCKET

7A-4T. For hi-voltage use TV rectifier tubes. all 4-pin types with base diameter such as Socket is set at bottom molded bakelite shell. 4 holes, 1 1/2" mtg. cen. requires 1 1/2" dia. hole. Wt., 5oz. 147. NET.....57c



### TELEVISION TUBE SOCKET

49-402. Duodecal socket-cathode-ray tubes with ally spaced pins on circle of 1.063". Bakelite and removable cap eliminate shock hazard. Shpg. 2oz. 100. NET.....82c



### CARRIER-TYPE OCTAL SOCKETS

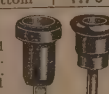
1000 EIA working voltages. 1000DC. Bronze clover-leaf movable contacts. Rated 1000V. Each contact. Inter-electrode capacitance, 2.6 mmf. screw terminals. Insulators. Includes 4 molded inserts for use as the points. Size: 1 1/2" x 2 1/2". Mounting centers, 1 1/4". Shpg. 4oz.



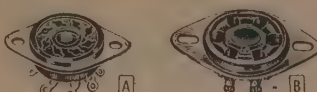
### CONTACT SOCKETS AND PLUGS

180 146-103 Top 1.44  
181 146-104 Top 1.76  
180 146-203 Bottom 1.44  
187 146-204 Bottom 1.76

180 146-103 Top 1.44  
181 146-104 Top 1.76  
180 146-203 Bottom 1.44  
187 146-204 Bottom 1.76



| No. | Type  | Description                       | EACH |
|-----|-------|-----------------------------------|------|
| 53  | 71-1L | Plug. Red. For 3/4" socket.       | 8c   |
| 54  | 71-1L | Plug. Black. Same as above.       | 8c   |
| 56  | 71-1M | Plug. Red. For 1/2" socket.       | 8c   |
| 57  | 71-1M | Plug. Black. Same as above.       | 8c   |
| 58  | 71-1S | Plug. Red. For 3/4" socket.       | 8c   |
| 59  | 71-1S | Plug. Black. Same as above.       | 8c   |
| 60  | 78-1L | Socket. Red. For 3/4" plug.       | 10c  |
| 61  | 78-1L | Socket. Black. Same as above.     | 10c  |
| 62  | 78-1M | Socket. Red. For 1/2" plug.       | 10c  |
| 63  | 78-1M | Socket. Black. Same as above.     | 10c  |
| 64  | 78-1P | Socket. Red. Std. 080" phone tip. | 10c  |
| 65  | 78-1P | Socket. Black. Same as above.     | 10c  |
| 66  | 78-1S | Socket. Red. For 3/4" plug.       | 10c  |
| 67  | 78-1S | Socket. Black. Same as above.     | 10c  |



A Type MIP. Bakelite body with molded-in steel plate. 1 1/4" hole mounting centers. 1 1/4" All others have 1 1/4" mounting centers. Requires 1 1/4" hole; others 1 1/4" hole. Mica-filled bakelite. Av. shpg. wt., 4 oz.

| Stock No. | Type    | Prongs  | NET |
|-----------|---------|---------|-----|
| 40 H 024  | 77MIP4  | 4       | 13c |
| 40 H 025  | 77MIP5  | 5       | 15c |
| 40 H 026  | 77MIP6  | 6       | 17c |
| 40 H 027  | 77MIP7  | 7 Small | 18c |
| 40 H 029  | 77MIP7L | 7 Large | 18c |
| 40 H 028  | 77MIP8  | 8       | 19c |
| 40 H 126  | 88-8*   | Octal   | 16c |
| 40 H 030  | 88-8*   | Local   | 21c |
| 40 H 032  | 77MIP8T | Octal   | 18c |
| 40 H 034  | 77MIP9  | 9       | 17c |
| 40 H 035  | 77MIP11 | 11      | 20c |
| 40 H 069  | 77MIP12 | 12      | 20c |
| 40 H 070  | 77MIP20 | 20      | 31c |

B Type RS. Molded bakelite body with removable mounting plate. For mounting in size 1 1/4" hole. Slotted mounting holes to fit centers from 1 1/2" to 1 3/4". Av. shpg. wt., 4 oz.

| Stock No. | Type   | Prongs  | NET |
|-----------|--------|---------|-----|
| 40 H 004  | 78RS4  | 4       | 17c |
| 40 H 005  | 78RS5  | 5       | 19c |
| 40 H 006  | 78RS6  | 6       | 20c |
| 40 H 007  | 78RS7S | 7 Small | 21c |
| 40 H 008  | 78RS8  | Octal   | 19c |
| 40 H 009  | 78RS8L | Local   | 26c |
| 40 H 012  | 78RS9  | 9       | 22c |
| 40 H 071  | 78RS11 | 11      | 24c |



C Type RSS. Ultra-low-loss steatite replacement sockets. Ruggedly constructed. Adaptable to a wide variety of uses. Excellent for use in high-frequency transmitting equipment, etc. All are universal type; have removable mounting plate with slotted holes 1 1/4" to 1 3/4". Mounting hole, 1 1/4" except 40 H 079, which requires 1 1/4". Av. shpg. wt., 5 oz.

| Stock No. | Type    | Prongs  | NET |
|-----------|---------|---------|-----|
| 40 H 074  | 49RSS4  | 4       | 58c |
| 40 H 075  | 49RSS5  | 5       | 60c |
| 40 H 076  | 49RSS6  | 6       | 59c |
| 40 H 077  | 49RSS7S | 7 Small | 67c |
| 40 H 079  | 49RSS7L | 7 Large | 64c |
| 40 H 078  | 49RSS8  | Octal   | 60c |

D Type S. High-dielectric molded bakelite body. Units are the same as Type RS, but without mounting plate. Mount quickly and easily without screws or rivets on panel or chassis up to .050" thick with retainer ring supplied. Ruggedly built for trouble-free service. Socket may be positioned to line up contacts for convenient wiring. Sockets in table below all require 1 1/4" mounting hole. Av. shpg. wt., 4 oz.

| Stock No. | Type  | Prongs  | NET |
|-----------|-------|---------|-----|
| 40 H 054  | 78S4  | 4       | 12c |
| 40 H 055  | 78S5  | 5       | 13c |
| 40 H 056  | 78S6  | 6       | 15c |
| 40 H 057  | 78S7S | 7 Small | 16c |
| 40 H 058  | 78S8  | Octal   | 15c |
| 40 H 059  | 78S9  | 9       | 17c |
| 40 H 060  | 78S8L | Local   | 21c |
| 40 H 072  | 78S11 | 11      | 19c |

## NEW MINIP SOCKET KIT

Type 77-3K. For making any Type MIP grommets, 2 mtg. screws, nuts, washers. 1 oz. socket (above) into floating socket. Includes: 4 40 H 092. NET.....15c

## MINIATURE SOCKETS AND SHIELDS

### BAKELITE AND STEATITE SOCKETS

Miniature sockets and shields. 147 series mount in 3/4" hole; 147 mtg. ctrs. with 1 1/4" hole. 59 series mount in 3/4" hole and have 1 1/4" mtg. ctrs. with .095" holes (except 40 H 103, 125V). \*Steatite. †Bakelite. ‡Mica-filled. Av. shpg. wt., 5 oz.

| Stock No. | Type     | Prongs | NET |
|-----------|----------|--------|-----|
| 40 H 191  | 1147-500 | 7      | 20c |
| 40 H 192  | 1147-501 | 7      | 21c |
| 40 H 193  | 1147-505 | 7      | 31c |
| 40 H 194  | 1147-506 | 9      | 25c |
| 40 H 197  | 1147-510 | 9      | 25c |

| Stock No. | Type     | Prongs | NET |
|-----------|----------|--------|-----|
| 40 H 194  | 1147-905 | 7      | 27c |
| 40 H 195  | 1147-925 | 7      | 35c |
| 40 H 175  | 1147-913 | 7      | 27c |
| 40 H 103  | 1147-403 | 9      | 38c |
| 40 H 176  | 1147-407 | 9      | 38c |
| 40 H 196  | 1147-406 | 9      | 31c |

### G TUBE SHIELDS

For 7-Contact Sockets

| Stock No. | Type  | Height | NET |
|-----------|-------|--------|-----|
| 40 H 197  | 5-401 | 1 1/2" | 15c |
| 40 H 198  | 5-402 | 1 1/2" | 15c |

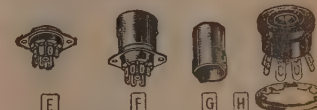
For 9-Contact Sockets

| Stock No. | Type  | Height | NET |
|-----------|-------|--------|-----|
| 40 H 188  | 5-405 | 1 1/2" | 13c |
| 40 H 189  | 5-408 | 1 1/2" | 18c |
| 40 H 190  | 5-409 | 2 1/4" | 22c |

## SPECIAL OCTAL AND MAGNOL SOCKETS

J Type 77-MIP8FK Floating Octal. Live-rubber grommets in enlarged mounting holes of sturdy steel plate. Mounts in 1 1/4" hole with two 1/4" holes on 1 1/2" centers. Supplied with grommets, mtg. screws, nuts, washers. Shpg. wt. 8 oz. 40 H 043. NET EACH.....30c

K Type 168-015 Saddle Octal. Designed for below-chassis mounting. Sturdy steel plate is molded directly into bakelite body—cannot come loose or vibrate. For 1" hole; 1/4" mounting holes on 1 1/4" centers. Shpg. wt., 5 oz. 40 H 118. NET EACH.....14c



### RETAINER RING SOCKETS

Mount in 3/4" round or "D" shaped hole with retainer ring provided. May be used with 91-MPM plugs listed on page 213, 5 oz.

### BLACK BAKELITE

| Stock No. | Type   | Prongs | NET |
|-----------|--------|--------|-----|
| 40 H 131  | 78-S3S | 3      | 9c  |
| 40 H 115  | 78-S4S | 4      | 12c |
| 40 H 122  | 78-S5S | 5      | 15c |
| 40 H 130  | 78-S6S | 6      | 15c |
| 40 H 120  | 78-7P  | 7      | 21c |

### MICA-FILLED

|          |        |   |     |
|----------|--------|---|-----|
| 40 H 124 | 78-7PT | 7 | 21c |
|----------|--------|---|-----|

### TYPE "S" MINIATURE SOCKETS

Full-size bakelite body with miniature 7 or 9-pin contacts. Ideal for recirculating. Mounts in std. 1 1/4" chassis hole with retainer ring (supplied). Wt., 5 oz.

|           |         |        |             |
|-----------|---------|--------|-------------|
| 40 H 113. | 78-A7P. | 7 Pin. | NET.....33c |
|-----------|---------|--------|-------------|

|           |         |        |             |
|-----------|---------|--------|-------------|
| 40 H 114. | 78-A9P. | 9 Pin. | NET.....32c |
|-----------|---------|--------|-------------|



L Type 49-SS11L Magnol. Has 1 1/4" pin circle to accept 11-prong cathode-ray tubes. Constructed from low-loss steatite. Steel retaining ring for quick assembly. Requires 1 1/4" mounting hole. Shpg. wt., 1 oz. 40 H 090. NET EACH.....82c

# Amphenol and Cinch-Jones Plugs and Sockets

## AMPHENOL PLUGS AND SOCKETS



### STANDARD AND GROUNDING-TYPE AC PLUGS AND SOCKETS

61 Series is 2-pole; 160 Series is 2-pole with grounding lug, recommended where grounding required. Black phenolic. Rated 15 amps at 120 v., AC/DC; 10 amps at 220 v. All are U.L. Approved except Types 160-10 and 160-11 which must be grounded after mounting. Av. shpg. wt., 3 oz.

**A Retainer Ring Mounting Types.** For mounting in  $1\frac{1}{4}$ " keyed hole in chassis up to  $\frac{1}{8}$ " thick. 61-M is standard type; 61-F is universal type. Retaining rings are cadmium-plated carbon steel. \*Include grounding prong and third terminal for ground wire.

| Stock No. | Type    | Description   | NET  |
|-----------|---------|---------------|------|
| 40 H 675  | 61-M    | 2-pole female | .27  |
| 40 H 677  | 61-F    | 2-pole female | .25  |
| 42 H 522  | 160-10* | 2-pole female | .60  |
| 42 H 523  | 160-11* | 2-pole female | 1.09 |

**B Mounting Plate Types.** All have molded-in, steel mounting plates except Types 61-M1 and 61-F1 which have removable ring-mounted and have  $\frac{3}{8}$ " slotted holes in  $1\frac{1}{2}$ " x  $1\frac{1}{2}$ " centers except Type 61-M1P-61F which requires  $1\frac{1}{2}$ " mounting hole and has  $\frac{3}{8}$ " holes on  $1\frac{1}{2}$ " mounting centers. \*Supplied complete with terminal for ground wire.

| Stock No. | Type       | Description   | NET  |
|-----------|------------|---------------|------|
| 40 H 680  | 61-M1      | 2-pole male   | .31  |
| 40 H 682  | 61-F1      | 2-pole female | .30  |
| 42 H 524  | 160-2*     | 2-pole female | .72  |
| 42 H 525  | 160-3*     | 2-pole male   | 1.12 |
| 40 H 085  | 61-M1P-61F | 2-pole female | .26  |

**Type 61-61 Recessed Shell.** Cadmium-plated steel shell for converting Type 61, 78, 86 and 160 connectors to recessed mounting types (listed in column above right). Fits  $1\frac{1}{4}$ " hole; 2" screw holes on  $1\frac{1}{2}$ " mtg. centers. Fits connector  $1\frac{1}{2}$ " below surface of chassis. Shpg. wt., 2 oz.

40 H 086, NET.....11c

**C Recessed Mounting Types.** Consist of Types 61 and 160 plugs and sockets (left) mounted in Type 61-61 recessed shell (left). \*Have ground wire terminal.

| Stock No. | Type   | Description   | NET  |
|-----------|--------|---------------|------|
| 40 H 685  | 61-M10 | 2-pole male   | .42  |
| 40 H 687  | 61-F10 | 2-pole female | .43  |
| 42 H 526  | 160-4* | 2-pole female | .83  |
| 42 H 527  | 160-5* | 2-pole male   | 1.23 |

**Cable Mounting Type. Shielded.** Steel-shielded, grounding-type plugs and sockets for use with AC cords. Types 160-6 and 160-7 have cable clamp (Fig. D) for up to  $\frac{3}{8}$ " cable; Types 160-8 and 160-9 have rubber grommet outlets (similar to Fig. E) for up to  $\frac{3}{8}$ " cable.

|          |       |               |      |
|----------|-------|---------------|------|
| 42 H 528 | 160-6 | 2-pole female | .81  |
| 42 H 529 | 160-7 | 2-pole male   | 1.19 |
| 42 H 535 | 160-8 | 2-pole female | .88  |
| 42 H 536 | 160-9 | 2-pole male   | 1.25 |

**E Type 3-13 Steel Cap.** Black enameled, drawn steel cap for use with Type 61 connectors, 86-CP plugs and Type S (Series 78) sockets. Outlet has rubber grommet for cable to  $\frac{7}{8}$ " dia.  $1\frac{1}{4}$ " long. 2 oz.

42 H 537, NET.....12c

**Type 3-857 Steel Cap.** As above, without enamel. For Type 160 connectors.

42 H 545, NET.....14c

**F Type 3-24 Steel Cap.** Same as Type 3-13, but with cable clamp for cables up to  $\frac{3}{8}$ " diameter. Shpg. wt., 2 oz.

42 H 538, NET.....18c

**42 H 546, Type 3-856.** As above, without enamel. For 160 connectors. NET.....19c



**G Octal Sockets With  $1\frac{1}{4}$ " Mounting Centers.** Molded from high dielectric black bakelite. Brass contacts and steel pressed-on saddle with 4 ground lugs. Mount in  $1\frac{1}{4}$ " chassis hole. 8AB is general-purpose type; 8AM is for VHF applications. 2 oz.

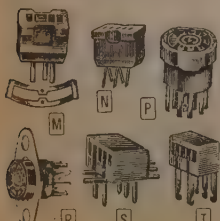
| Stock No. | Type | Description    | NET |
|-----------|------|----------------|-----|
| 22 H 579  | 8AB  | Black Bakelite | 9c  |
| 22 H 580  | 8AM  | Mica-filled    | 12c |

**H Octal Sockets With  $1\frac{1}{2}$ " Mounting Centers.** Similar to above, have clinch-on saddle with 4 ground lugs; mount in  $1\frac{1}{2}$ " hole. Ceramic unit for UHF use. Av. shpg. wt., 2 oz.

|          |     |                |     |
|----------|-----|----------------|-----|
| 22 H 581 | 8EB | Black Bakelite | 10c |
| 22 H 583 | 8EM | Mica-filled    | 12c |
| 22 H 582 | 8EC | Ceramic        | 45c |

**Miniature Sockets—Bottom Mounting.** Molded bakelite. Solder-coated brass contacts; cadmium plated steel saddle. 7EB and 7EM mount in  $\frac{5}{8}$ " hole;  $\frac{7}{8}$ " mtg. centers. 9EB and 9EM mount in  $\frac{7}{8}$ " hole;  $1\frac{1}{8}$ " centers. 2 oz.

| Stock No. | Type | Fig. | Description        | NET |
|-----------|------|------|--------------------|-----|
| 22 H 567  | 7EB  | J    | 7-pin, bakelite    | 9c  |
| 22 H 568  | 7EM  | J    | 7-pin, mica-filled | 11c |
| 22 H 594  | 9EB  | K    | 9-pin, bakelite    | 12c |
| 22 H 595  | 9EM  | K    | 9-pin, mica-filled | 14c |



### SUB-MINIATURE TUBE AND TRANSISTOR SOCKETS

**Sub-Miniature Types.** For hearing aids, miniature radios, etc. Mica-filled bakelite with silver-plated contacts. 4-prong miniature tubes and G.E. G11 and G11A transistors fit 2H5. \*Mounting ring for Type 85M. Av. shpg. wt., 2 oz.

| Stock No. | Type | Pins | Fig. | NET | Stock No. | Type | Pins | Fig.  | NET |
|-----------|------|------|------|-----|-----------|------|------|-------|-----|
| 40 H 294  | 2H3  | 3    | M    | 20c | 40 H 242  | 85M  | 8    | P     | 42c |
| 40 H 245  | 2H5  | 5    | N    | 22c | 40 H 614  | 85MP | 8    | R     | 54c |
| 22 H 613  | 2H6  | 6    | N    | 29c | 22 H 615  | 28R  | 8    | ..... | 2c  |
| 40 H 247  | 2H7  | 7    | N    | 31c |           |      |      |       |     |

**Transistor Types.** 5-contact sockets; Type SPC (Fig. S) for printed circuits; SWC (Fig. T) for wired circuits. 2 oz.

| Stock No. | Type | Size                                                | NET | Stock No. | Type | Size                                                | NET |
|-----------|------|-----------------------------------------------------|-----|-----------|------|-----------------------------------------------------|-----|
| 40 H 249  | SWC  | $\frac{3}{8}$ " x $\frac{1}{2}$ " x $\frac{1}{4}$ " | .37 | 40 H 252  | SPC  | $\frac{1}{2}$ " x $\frac{1}{2}$ " x $\frac{1}{4}$ " | .39 |

## TYPE CP PLUGS



Standard bakelite plugs for use as chassis connectors with plug-in units. "CP" plug quickly and easily installed without screws or rivets. Means of retaining rings. Use adapter plate for low for replacement mounting. RMS voltage ratings: 86-CP4, 2000 v.; CP-11 and CP-15, 500 v.; all others, 1250 v. With mounting in  $1\frac{1}{4}$ " holes except  $1\frac{1}{2}$ " keyed hole. Fits guide post and aligning key. Av. shpg. wt., 1 oz.

| No.      | Mfr's Type | Prongs  | NET |
|----------|------------|---------|-----|
| 40 H 015 | 86-CP4     | 4       | 16c |
| 40 H 016 | 86-CP5     | 5       | 17c |
| 40 H 017 | 86-CP6     | 6       | 18c |
| 40 H 018 | 86-CP7L*   | 7-Large | 21c |
| 40 H 019 | 86-CP7S    | 7-Small | 19c |
| 40 H 020 | 86-CP8†    | 8       | 20c |
| 40 H 021 | 86-CP9†    | 9       | 20c |
| 40 H 022 | 86-CP11†   | 11      | 23c |
| 42 H 654 | 86-CP12†   | 12      | 23c |

**Type 12-001-03 Adapter Plate.** Nickel-plated steel. For use with all Type CP plugs listed above except 86-CP7L  $1\frac{1}{2}$ " to  $1\frac{1}{4}$ " mounting centers. Shpg. wt., 2 oz.

40 H 023, NET.....5c

## MINIATURE CP PLUGS



7 and 9 pin plugs designed for miniature tube sockets. Features molded-in strain relief post. High-quality contacts are gold over silver-plate, for extremely high conductivity. Av. shpg. wt., 2 oz.

| Stock No. | Type   | Prongs               | NET  |
|-----------|--------|----------------------|------|
| 42 H 650  | 86-893 | 9                    | 1.40 |
| 42 H 651  | 86-894 | 7 w/ side outlet cap | 1.00 |
| 42 H 652  | 86-895 | 7 w/ cap             | 1.00 |
| 42 H 649  | 86-896 | 7                    | 1.10 |
| 42 H 652  | 86-897 | 9 with cap           | 1.10 |

## CINCH-JONES PLUGS AND SOCKETS

### OCTAL AND MINIATURE TUBE SOCKETS



**Miniature Sockets—Top Mounting.** Molded bakelite. Brass contacts. 7AB1 and 7AM1 mount in  $\frac{3}{8}$ " hole;  $\frac{7}{8}$ " centers. 9AB and 9AM mount in  $\frac{3}{4}$ " hole;  $1\frac{1}{4}$ " centers. 2 oz.

| Stock No. | Type | Fig. | Description        | NET |
|-----------|------|------|--------------------|-----|
| 22 H 565  | 7AB1 | J    | 7-pin, bakelite    | 9c  |
| 22 H 566  | 7AM1 | J    | 7-pin, mica-filled | 11c |
| 22 H 592  | 9AB  | K    | 9-pin, bakelite    | 11c |
| 22 H 593  | 9AM  | K    | 9-pin, mica-filled | 14c |

**L Ring-Mounting Octal Sockets.** Molded bakelite with solder-coated brass contacts. Mount in  $1\frac{1}{4}$ " keyed hole. Retainer ring supplied. \*Chassis thickness. Av. shpg. wt., 2 oz.

| Stock No. | Type | Size*           | Description    | NET |
|-----------|------|-----------------|----------------|-----|
| 22 H 584  | 8R1  | $\frac{1}{8}$ " | Black bakelite | 18c |
| 22 H 586  | 8R3  | $\frac{1}{8}$ " | Mica-filled    | 22c |
| 22 H 587  | 8R4  | $\frac{3}{8}$ " | Black bakelite | 18c |
| 22 H 588  | 8R5  | $\frac{3}{8}$ " | Mica-filled    | 22c |
| 22 H 585  | 8R2  | $\frac{1}{8}$ " | Black bakelite | 18c |
| 22 H 589  | 8R6  | $\frac{1}{8}$ " | Mica-filled    | 22c |

**22 H 590, Type 8RO Retainer Ring.** Extra rings for above sockets. Wt., 1 oz. NET.....4c

**22 H 591, Type 8AP Adapter Plate.** For use with ring sockets when screw or rivet mounting is required. Slotted  $1\frac{1}{2}$ " to  $1\frac{7}{8}$ " mounting centers;  $1\frac{1}{4}$ " keyed hole. 1 oz. NET.....5c

## WAFER-TYPE TUBE SOCKETS



Laminated-bakelite tube sockets widely used in radio, TV, mobile unit, etc. Solder-coated brass contacts. \*With center shield. Av. wt., 2 oz.

| Stock No. | Type  | Centers          | Pins     | NET |
|-----------|-------|------------------|----------|-----|
| 22 H 623  | 7W2A* | $\frac{7}{8}$ "  | 7 (min.) | 6c  |
| 22 H 622  | 7W12* | $\frac{7}{8}$ "  | 7 (min.) | 6c  |
| 22 H 624  | 7W14* | $1\frac{1}{8}$ " | 7 (min.) | 8c  |
| 22 H 625  | 8W1   | $1\frac{1}{8}$ " | 8        | 8c  |
| 22 H 626  | 8W2   | $1\frac{1}{8}$ " | 8        | 8c  |
| 22 H 627  | 9W1*  | $1\frac{1}{8}$ " | 9 (min.) | 8c  |
| 22 H 628  | 9W2*  | $1\frac{1}{8}$ " | 9 (min.) | 9c  |

## TYPE 8PB-8-CONTACT PLUG



For making up to 8 connections between chassis. Molded black bakelite. Fits any octal socket. Use 16F shield, (below). Wt., 2 oz.

40 H 846, NET.....19c

**Type 11PB11-Contact Plug.** Same as above but with 11 contacts. Molded black bakelite construction. Fits 11-contact socket. Type 11RB listed below. Use with type 16F snap-shield, below. Shpg. wt., 2 oz.

40 H 847, NET.....25c

## TYPE 16F STEEL SNAP-ON SHIELD

Cadmium-plated, durable steel shield. Snap-on 8PB and 11PB sockets, above. Rubber grommet with  $\frac{3}{8}$ " hole protects cable. 2 oz.

40 H 848, NET.....27c

## TYPE 11RB11-CONTACT SOCKET



Use with 11PB11-contact plug (above). Precision molded from high-dielectric, black bakelite. Mount on  $\frac{1}{4}$ " thick chassis using retaining ring. Use with 16F shield on shield (above) on external cables. Shpg. wt., 2 oz.

40 H 849, NET.....26c

## CHASSIS AC SOCKET



**Type 2R2.** Molded, black bakelite. Rated 15 amps at 110 v. amp at 250 v. Solder lug terminals. Mounts in  $\frac{3}{8}$ " x  $\frac{1}{2}$ " hole.  $\frac{1}{8}$ " dia. mtg. holes on  $1\frac{1}{4}$ " centers. Size,  $1\frac{1}{2}$ " x  $\frac{1}{2}$ ". 2 oz.

40 H 830, NET.....17c



## ELCO TRANSISTOR AND TUBE SOCKETS

### TRANSISTOR SOCKETS

Infinate mica eliminate loss image from dividing of transistors. For 3-pin sockets with insulators or 3 and 4 transistors with 200° diam. circle of any configuration. MIL-P-14. \*Ring only for 3304, 3310, 3313, †PC, mounting for printed; MR, mounting ring. Av. wt., 2 oz.

| Stock No. | Mfr's Type | Fig. | †Mtg.  | NET EACH |
|-----------|------------|------|--------|----------|
| 1092      | 3301       | A    | Saddle | 35c      |
| 1239      | 3306       | B    | Saddle | 35c      |
| 1245      | 3309       | C    | Saddle | 35c      |
| 1248      | 3312       | D    | Saddle | 38c      |
| 1238      | 3303       | A    | PC     | 27c      |
| 1094      | 3305       | A    | PC     | 30c      |
| 1244      | 3308       | B    | PC     | 30c      |
| 1247      | 3311       | C    | PC     | 30c      |
| 1093      | 3304       | A    | MR     | 26c      |
| 1243      | 3307       | B    | MR     | 26c      |
| 1246      | 3310       | C    | MR     | 26c      |
| 1249      | 3313       | D    | MR     | 29c      |
| 1095      | 757        | *    | MR     | 3c       |

### TESTED CIRCUIT SOCKETS

Excellent selection of sub-miniature filled phenolic sockets on printed circuit boards. Transistors and sub-miniature tubes. All contacts gold flash. Shpg. wt., 2 oz.



| Stock No. | Mfr's Type | Prongs | NET EACH |
|-----------|------------|--------|----------|
| H 062     | 786BC      | 3      | 18c      |
| H 063     | 803BC      | 4      | 18c      |
| H 064     | 788BC      | 5      | 19c      |
| H 072     | 815BC      | 6      | 20c      |
| H 073     | 792BC      | 7      | 21c      |

### MINI MOUNT SOCKETS

These sockets of mica filled phenolic for transistors and sub-miniature tubes. Contacts are gold plated. Require retainers listed. Shpg. wt., 3 oz.



| Stock No. | Mfr's Type | Prongs | NET EACH |
|-----------|------------|--------|----------|
| H 074     | 799BC      | 3      | 16c      |
| H 080     | 803BC      | 4      | 17c      |
| H 081     | 770BC      | 5      | 17c      |
| H 082     | 813BC      | 6      | 18c      |
| H 096     | 790BC      | 7      | 20c      |

### RETAINERS

| Stock No. | Mfr's Type | For Type No.        | NET EACH |
|-----------|------------|---------------------|----------|
| 1097      | 777        | 799BC, 803BC, 770BC | 2c       |
| 1098      | 834        | 813BC               | 2½c      |
| 1099      | 768        | 790BC               | 2½c      |

### NEW "E-Z MATE" SOCKETS

At a time, these and 9-pin sockets with co-shield, interchangeable MIL-S-8834 sockets. The key at top of socket permits tube to slide until it reaches correct position for insertion. Contact material is cadmium-plated brass. 7-pin types, 7/8" hole; 9-pin types, 1" hole. Current rating, 1 amp; volt rating, 500 V. S; insulation resistance, 1000 megohms minimum; contact resistance, .030 ohm max. wt., 3 oz.

### SHIELD BASE TYPE

| Stock No. | Type     | Pins | Description     | EACH |
|-----------|----------|------|-----------------|------|
| 1007      | 234-3702 | 7    | General-Purpose | 15c  |
| 1008      | 235-3702 | 7    | Mica-Filled     | 16c  |
| 1009      | 167-3905 | 9    | General-Purpose | 18c  |
| 1002      | 169-3905 | 9    | Mica-Filled     | 20c  |

### TOP-MOUNTED SADDLE TYPE

| Stock No. | Type     | Pins | Description     | EACH |
|-----------|----------|------|-----------------|------|
| 1003      | 240-3702 | 7    | General-Purpose | 08c  |
| 1004      | 241-3702 | 7    | Mica-Filled     | 09c  |
| 1009      | 166-3905 | 9    | General-Purpose | 11c  |
| 1032      | 197-3905 | 9    | Mica-Filled     | 12c  |

## E. F. JOHNSON TUBE SOCKETS



### SPECIAL SOCKET TYPES

E Type 122-105-100, 7-pin VHF statelite socket for 5894, 6524, 6252 tubes. Ventilated aluminum shell. Shpg. wt., 10 oz. 73 H 996, NET 1.45

F Type 122-244-1, 4-pin statelite for "super jumbo" tubes. Takes 8008, BR6, SC22, SC22, GL146, GL152, GL159, GL169, RO585, RH307, SR50, SR53, SK60, FG105. Wt., ½ lb. 73 H 997, NET 1.60

G Type 122-275-1, Statelite socket for giant 5-pin base tubes. Takes 4-125A, 4-250A, RK28, RK48, 125M, 803. Shpg. wt., 10 oz. 73 H 998, NET 1.90

H Type 122-101-100, 7-pin statelite with base shield and retainer springs. For use with 4-65A, 826, 829, 832, etc. Shpg. wt., ½ lb. 73 H 245, NET 2.35

I Type 124-113-1, Capacitor-Mount, 2450 mmd mica screen by-pass. Tested 1000 v. DC. For 124-109 and 124-114 sockets. 6 oz. 73 H 999, NET 5.00

J Type 124-114-1, Socket for 4X150A, 4X250B, 7034, 7035, etc. Shpg. wt., ½ lb. 73 H 995, NET 5.65

### BAYONET SOCKETS

K Type 123-209-1, For tubes with 4 prong "UX" base; 852, 800, 866 tubes, etc. 4 mfg. tubes. 25¢ centers. Wt., 10 oz. 73 H 195, NET 1.50

L Type 123-211-1, Porcelain base socket for use with "jumbo"-type 4-pin tubes. Takes 211, 872 tubes, etc. Mounting centers are spaced 2½". Shpg. wt., 1 lb. 73 H 191, NET 1.95

### STANDARD WAFERS

Statelite wafer sockets designed to meet general requirements of receiving, low-power transmitting tubes. All types have cadmium-plated contacts. Bases are drilled statelite. Size, 2½" x 1½". Capacitors have 1¼" mounting centers. Shpg. wt., 4 oz.

| Stock No. | Mfr's Type | Prongs | NET |
|-----------|------------|--------|-----|
| 73 H 238  | 122-224-1  | 4      | 69c |
| 73 H 239  | 122-225-1  | 5      | 76c |
| 73 H 241  | 122-227-1  | 7      | 90c |
| 73 H 243  | 122-228-1  | Octal  | 97c |

### VECTOR SOCKETS

#### PLUG-IN UNITS

Consist of standard tube socket, tubular terminal post, octal plug and shield can. Can sizes: B10M and B10N, 1½" square, 2½" long; B10M 1½" square, 2½" square, 2½" long. Av. shpg. wt., 5 oz.

| Stock No. | Type | Description     | NET EA. |
|-----------|------|-----------------|---------|
| 40 H 237  | B10M | 7-pin Miniature | 1.87    |
| 40 H 238  | B10N | 9-pin Noval     | 1.91    |
| 40 H 241  | C10M | 7-pin Miniature | 2.17    |
| 40 H 239  | C10N | 9-pin Noval     | 2.20    |

#### SOCKET-TURRETS

Terminal structures for use in single or multi-stage sub-assemblies. Components mount on phenolic form. Turrets are ½" diam. Octal units mount in 1" hole; miniatures, ¾" hole. Av. shpg. wt., 3 oz.

2½" Turret. Has 9 terminals in two rings spaced 1¼" apart.

| Stock No. | Type    | Socket | NET |
|-----------|---------|--------|-----|
| 40 H 211  | 10-0-9T | Octal  | 62c |

2" Turrets. 9 terminals in two rings, 1" apart.

| Stock No. | Type   | Socket     | NET |
|-----------|--------|------------|-----|
| 40 H 212  | 8-0-9T | Octal      | 59c |
| 40 H 217  | 8-M-9T | 7-Pin Min. | 68c |
| 40 H 233  | 8-N-9T | 7-Pin Min. | 68c |

1½" Turrets. Have 6 terminals in one ring.

| Stock No. | Type   | Socket     | NET |
|-----------|--------|------------|-----|
| 40 H 213  | 6-0-6T | Octal      | 53c |
| 40 H 218  | 6-M-6T | 7-Pin Min. | 59c |
| 40 H 234  | 6-N-6T | 9-Pin Min. | 62c |

Shield Bases. For miniature sockets above. Fasten above chassis on socket mtg. centers. Use with standard bayonet type shield. 2 oz.

| Stock No. | Type | Description       | NET |
|-----------|------|-------------------|-----|
| 40 H 235  | S7   | For 7-pin sockets | 9c  |
| 40 H 236  | S9   | For 9-pin sockets | 9c  |

### RAY-PAR ANTI-CORONA SOCKET

Octal socket for 1B3 high-voltage rectifier tube. Corona ring minimizes breakdown. Laminated bakelite. Mounts on insulator or high-voltage capacitor with screw type terminal. Shpg. wt., 3 oz. 44c

### AMPHENOL

#### PHOTO TUBE SOCKET

Type 146-121. For all light sensitive tube applications using C-7026A, 921, and 922 type tubes. Mounts in any of 10 positions. 5 oz. 40 H 091, NET 2.41

### EBY SOCKETS



Above-Chassis Type. One-piece molded bakelite construction, for top-of-chassis or panel mounting. Contact designations molded in base. Mounting centers, 1½". Shpg. wt., 2 oz.

| Stock No. | Type   | Prongs | 1-9, EA. | 10-49, EA. |
|-----------|--------|--------|----------|------------|
| 40 H 254  | 12-4   | 4      | 30c      | 28c        |
| 40 H 255  | 12-5   | 5      | 32c      | 30c        |
| 40 H 256  | 12-6   | 6      | 34c      | 32c        |
| 40 H 261  | 12-7-N | 7      | 36c      | 34c        |
| 40 H 258  | 12-8   | Octal  | 39c      | 36c        |

TV Tube Socket Type 49-13DD. All-molded bakelite, duo-decal TV tube socket for magnetic or electrostatic focusing tubes. Complete with 18° leads. Shpg. wt., 4 oz. 40 H 291, 10-49, EA. 43c 1-9, EA. 47c

### CRT TEST SOCKET ADAPTER

TV picture tube socket adapter, easy to install or remove. External lugs permit checking all CRT pin voltages while set is in operation. No wiring or soldering required. Wt., 3 oz. 94c 40 H 273, 1-9, EACH 84c 10-49, EACH 84c

### AMPHENOL

#### MULTIWIRE CONNECTORS

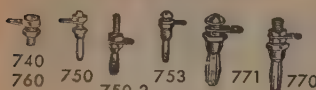
Matching male and female connectors. Take cables up to 7/8" O.D. F in type number, female; M, male. Av. shpg. wt., 3 oz.

| Stock No. | Mfr's Type | Con-tacts | NET EACH |
|-----------|------------|-----------|----------|
| 40 H 524  | 78-PP4     | 4         | 31c      |
| 40 H 525  | 78-PP5     | 5         | 31c      |
| 40 H 526  | 78-PP6     | 6         | 33c      |
| 40 H 527  | 78-PP7S    | 7S        | 34c      |
| 40 H 528  | 78-PP8     | 8         | 33c      |
| 40 H 516  | 78-PP9     | 9         | 35c      |
| 40 H 517  | 78-PP11    | 11        | 37c      |
| 40 H 504  | 68-PM4     | 4         | 34c      |
| 40 H 505  | 68-PM5     | 5         | 35c      |
| 40 H 506  | 68-PM6     | 6         | 35c      |
| 40 H 507  | 68-PM7S    | 7S        | 37c      |
| 40 H 508  | 68-PM8     | 8         | 37c      |
| 40 H 512  | 68-PM9     | 9         | 38c      |
| 40 H 513  | 68-PM11    | 11        | 41c      |
| 42 H 655  | 68-PM12    | 12        | 47c      |
| 42 H 656  | 68-PM20    | 20        | 59c      |

Amphenol Cable Clamp. Type 79-CC4. For use with above connectors. Relieves strain on soldered connections. Shpg. wt., 5 oz. 40 H 670, NET 10c

# Plugs, Jacks, Terminal Strips, Lugs

## E. F. JOHNSON NON-INSULATED PLUGS AND JACKS



Banana type have nickel-silver springs. \*Jacks are nickel-plated brass with phosphor bronze spring sleeves. Type 750-2 has long screw for mounting on ceramic or statelite plug-in coil forms. Supplied with solder terminal and nut. Av. shpg. wt., 2 oz.

| Stock No. | Type      | Fits            | Length | NET   |
|-----------|-----------|-----------------|--------|-------|
| 73 H 200  | 108-740*  | 750, 750-2, 753 | 3/4"   | 1 1/2 |
| 73 H 201  | 108-750   | 740             | 1 1/4" | 1 3/4 |
| 73 H 202  | 108-750-2 | 740             | 1 1/4" | 1 4/4 |
| 72 H 203  | 108-753   | 740             | 1 1/4" | 1 4/4 |
| 73 H 204  | 108-750*  | 770, 771        | 1 1/4" | 1 4/4 |
| 73 H 205  | 108-770   | 760             | 1 1/4" | 3 1/2 |
| 73 H 206  | 108-771   | 760             | 1 1/4" | 3 3/4 |

## VECTOR TYPE ADAPTER TEST KIT



Type T-789. For making voltage, resistance and wave form measurements from tube side of chassis. Contains 1—7-pin, 1—9-pin miniature, and 1 octal adapter—fit into tube shield bases. 1/2" diam. holes for test prod points. 6 oz.

40 H 210. NET.....5.78

## G-C DOUBLE PHONO JACK



GC-Electrocrafft Type 33-800. Two standard phono jacks on a common base. Fit std. phono pin plugs. 1 1/2"x1". Wt., 2 oz.

1 to 9, EACH.....8c  
41 H 179, 10 Up, EA.....7c

## JAMES MILLEN TUBE SOCKETS

Recommended for UHF use. Higher statelite body gives longer leakage path between contacts. Mounting centers, 1 1/4". Shpg. wt., 4 oz.



| Stock No. | Type  | Prongs | EACH |
|-----------|-------|--------|------|
| 72 H 060  | 33004 | 4      | 5    |
| 72 H 061  | 33005 | 4      | 5    |
| 72 H 062  | 33006 | 4      | 5    |
| 72 H 064  | 33008 | 8      | 5    |

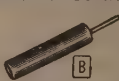
45c

## SHIELDED PHONO PIN-PLUG AND JACK



Standard pin and jack. Av. wt. 1 oz. 3 per pkg. 46 H 212. Pin Plug. 13c  
NET PER PKG. 13c  
46 H 213. Pin Jack. 16c  
NET PER PKG. 16c

## GC-ELECTROCAFFT TEST PRODS AND CONNECTORS



A Connectors. Molded-elastic angle phone tips for test leads. Solderless prod, 2 oz.

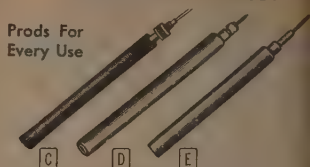
"Trigger-Quick" clamps. Shpg. wt., 2 oz.  
50 N 491, 33-132. Red. NET  
50 N 736, 33-134. Black. EACH.....41c

B Type 33-138 Self-Gripping Tips. Clip to any terminal, lug, etc. Needle points for piercing insulation. Solderless connection inside 1/4" plastic handle. Shpg. wt., 2 oz.  
42 N 271, 33-138. Red. NET  
42 N 272, 33-140. Black. EACH.....37c

B Type 33-160 Mini-Prod Adapter Tips. Fit over standard test points or phono needle types. Convert to self-gripping types with insert supplied. Shpg. wt., 2 oz.  
50 N 159, 33-160. Red. NET  
50 N 160, 33-162. Black. EACH.....37c

## GC-ELECTROCAFFT PRODS

Prods For Every Use



C Type 33-404 Solderless Test Prod. Threaded prod with 4" long plastic handle. 3/8" outer diameter. Nickel-plated phone wire its through handle and body of plug wraps around screw portion. Wire secured by knurled collar. Available in choice of two colors—red or black. Shpg. wt., 4 oz.  
42 N 110. Red. NET  
42 N 111. Black. EACH.....29c

C Type 33-376 Solderless Fiber Test Prod. Has 5 1/2" bone fiber handle with extra large 3/8" inside diameter for heavy-duty wire. Body is nickel-plated brass. Wire fits through handle and body of plug, then wraps around screw portion. Secured by knurled collar. Wt., 4 oz.  
42 N 258. Red. NET  
42 N 259. Black. EACH.....29c

D Type 33-374 Phono Needle Test Prod. Brass, nickel-plated body with steel, nickel-plated phono-type needle. Has removable chuck for replacing broken needles. Needle pierces plating or corrosion to insure positive readings. Molded plastic handle, overall length 6 1/4" long, 3/8" outer diameter. Shpg. wt., 3 oz.  
42 N 375. Red. NET  
42 N 374. Black. EACH.....32c

E Type 33-378 Heavy-Duty Test Prod. Threaded type with extra-sturdy brass nickel-plated tip. Molded plastic handle, overall length 6 1/4" long, 3/8" outer diameter. Fits standard phono tip jacks. Shpg. wt., 3 oz.  
42 N 376. Red. NET  
42 N 376. Black. EACH.....32c

## FAHNESTOCK SPRING CONTACT CLIPS



Positive contact clips. \*Made of bronze. All others brass. Av. shpg. wt., per pkg. 3 oz. 10 clips per package.

| Stock No. | Mfr's Type | Fig. | Length | Width | Max. Wire | Mtg. Hole | NET PER PKG. |
|-----------|------------|------|--------|-------|-----------|-----------|--------------|
| 41 H 700  | 2          | F    | 1 1/4" | 3/8"  | 10        | 8         | 1.15         |
| 41 H 702  | 3          | F    | 1 1/4" | 3/8"  | 10        | 8         | 1.15         |
| 41 H 705  | 10         | G    | 1 1/4" | 3/8"  | 10        | 8         | 1.15         |
| 41 H 707  | 15         | G    | 1 1/4" | 3/8"  | 10        | 8         | 1.15         |
| 41 H 704  | 9          | H    | 2 1/4" | 3/8"  | 10        | 8         | 1.15         |
| 41 H 710  | 9C         | H    | 1 1/4" | 3/8"  | 10        | 8         | 1.15         |
| 41 H 715  | 18         | H    | 1 1/4" | 3/8"  | 10        | 8         | 1.15         |
| 41 H 708  | 36*        | K    | 1 1/4" | 3/8"  | 10        | 8         | 1.15         |
| 41 H 709  | 45         | K    | 1 1/4" | 3/8"  | 12        | 6         | 1.15         |

## POMONA SOCKET SAVERS



Rigidly-mounting socket savers of durable phenolic material with long-life metal contacts. Protect your tube tester sockets from wear caused by repeated tube insertions. Does away with time consuming socket replacements. Prevents tube tester sockets from developing loose, worn contacts. No wiring or soldering is necessary—plugs into original socket. With threaded bolt and nut. For 7 and 9-pin miniature and octal sockets. Av. shpg. wt., 3 oz.

| Stock No. | Type | Description         | NET  |
|-----------|------|---------------------|------|
| 40 H 668  | SS-7 | For 7-pin miniature |      |
| 40 H 669  | SS-8 | For 8-pin octal     | 1.75 |
| 40 H 678  | SS-9 | For 9-pin miniature |      |

## POMONA 110° CONVERSION ADAPTERS



Model 110-S. Sylvania Type. For duo-dial test equipment. No rewiring—plug in for 110° socket. Has 0.820" pin circle dia. 7 pins. .093" dia. Shpg. wt., 4 oz.

40 H 683. NET.....1.52

Model 110-R. RCA Type. As above, but has 0.600" pin circle dia. 8 pins. .040" dia. Shpg. wt., 5 oz.

40 H 684. NET.....1.52

## TIE POINTS, TERMINAL STRIPS, SNAPS, STUDS, LUGS



### CINCH-JONES TERMINAL STRIPS

L Lug Types. Solder coated steel lugs spaced on 1/4" centers with 140 dia. mounting holes. Bakelite strips are 1/8" thick, 3/8" wide. Av. shpg. wt., 2 oz.

| Stock No. | Type | Terminals | NET/EACH |
|-----------|------|-----------|----------|
| 22 H 644  | 51   | 2         | 2c       |
| 22 H 645  | 52   | 2         | 2c       |
| 22 H 646  | 53E  | 3         | 3c       |
| 22 H 647  | 54   | 4         | 4c       |
| 22 H 648  | 54C  | 5         | 4c       |
| 22 H 649  | 56B  | 6         | 6c       |

M Screw Type. Solder coated brass terminals spaced on 1/4" centers. All have 130° diameter mounting holes. Made of 1/8" bakelite. Av. shpg. wt., 2 oz.

| Stock No. | Type | Terminals | PER PKG. |
|-----------|------|-----------|----------|
| 22 H 649  | 17-3 | 2         | 6c       |
| 22 H 650  | 17-4 | 3         | 6c       |
| 22 H 651  | 17-4 | 4         | 12c      |
| 22 H 652  | 17-5 | 5         | 15c      |
| 22 H 653  | 17-6 | 6         | 18c      |

### NU-WAY SNAPS, STUDS, AND LUGS

Make and break contacts for temporary or permanent connections. Size: Snap, 3/8" dia. x 1/4" L; Stud, 6-32x1/4"; Lug, 1/2"x3/8"x1/4". Nickel-plated brass. Snap has solder lug; Lug has hole for 6-32 screw. 12 oz. 100 per pkg.

| Stock No. | Fig. | Description                    | PER PKG. |
|-----------|------|--------------------------------|----------|
| 44 H 450  | N    | Snaps for lugs and studs.      | 7.90     |
| 44 H 452  | P    | Stud for panel or chassis mtg. | 5.00     |
| 44 H 451  | R    | Lug for flush mounting.        | 5.00     |

### MINIATURE TIE-POINTS

S Bakelite strips handy for supporting resistors, condensers, etc., in circuit wiring. Tinned terminals on 1/8" phenolic. With ground lug. Wt., per pkg., 8 oz. 10 per package.

| Stock No. | Terminals | PER PKG. |
|-----------|-----------|----------|
| 41 H 510  | 2         | 15c      |
| 41 H 511  | 3         | 21c      |
| 41 H 512  | 4         | 25c      |
| 41 H 513  | 5         | 31c      |
| 41 H 514  | 6         | 36c      |

### HEAVY-DUTY STRIPS

T Black 1/4" bakelite. Cadmium-plated screw terminals. Tinned lugs. Ideal for antenna-ground connection on receivers; speaker connections, power supply terminals, and similar applications. Bakelite base drilled for 2-hole chassis mounting. Av. shpg. wt., 4 oz.

| Stock No. | Terminals | 1-9, EA. | 10-49, EA. |
|-----------|-----------|----------|------------|
| 41 H 875  | 2         | 20c      | 18c        |
| 41 H 880  | 3         | 27c      | 25c        |
| 41 H 885  | 4         | 33c      | 31c        |
| 41 H 890  | 5         | 40c      | 36c        |
| 41 H 895  | 6         | 45c      | 42c        |
| 41 H 897  | 7         | 51c      | 47c        |
| 41 H 898  | 8         | 56c      | 53c        |

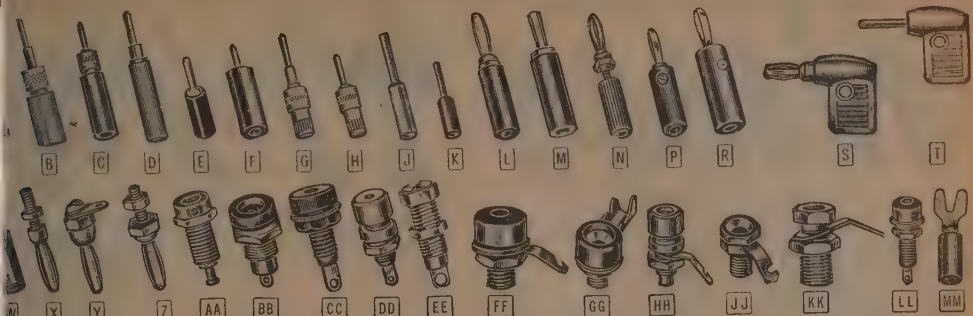
### TERMINAL LUGS & PIN PLUGS

Av. shpg. wt., per pkg., 4 oz. 10 per pkg.

| Stock No. | Fig. | Description                | PER PKG. |
|-----------|------|----------------------------|----------|
| 41 H 767  | W    | Terminal lugs.             | 53c      |
| 41 H 777  | X    | Black, insulated pin-plug. | 50c      |



# G-C Electrocraft Plugs and Jacks



## SULATED TIP PLUGS

ype 33-110 Heavy Duty  
one Tip Plug. Molded  
to handle. One piece, nickel-  
brass construction. 2 1/2"  
Shpg. wt., 3 oz.  
536. Red 1-9,  
537. Black NET EACH  
538. Yellow 15c  
539. Green  
540. Blue  
EACH 13c

ype 33-106 "Senior" Solder-  
less Phone Tip Plug. Knurl-  
ed tightens against wire mak-  
ing solder unnecessary. Plug  
nickel-plated brass; handle,  
te 2 1/2" long. Wt., 3 oz.  
550. Red  
551. Black 1-9,  
552. Yellow NET EACH  
553. Green 15c  
554. Blue  
EACH 13c

ype 33-144 "Junior" Solder-  
less Phone Tip Plug. Has  
tightening assembly as Type 6,  
above. Bakelite handle;  
-tated brass. 2" long. 3 oz.  
542. Red 1-9,  
543. Yellow NET EACH  
544. Black 15c  
545. Green  
546. Blue  
EACH 13c

ubminiature Phone Tip.  
O.D. bone fiber handle.  
l-plated brass tip. 1 1/2"  
1 long. 2 oz.  
H 547 33-112 Red  
H 548 33-114 Black

NET EACH 18c  
EACH 16c  
ype 33-116. For standard  
p jacks. 1 1/2" long. 3 oz.  
I 260. Red 1-9,  
I 261. Black NET EA. 10c  
EACH 9c

hort Phone Tip Plug.  
houlderless tip permits in-  
el-plated brass tip. 1 1/2"  
Shpg. wt., 3 oz.  
No. Type Color  
I 575 33-118 Red  
I 576 33-120 Black  
I 577 33-118 Yellow  
I 578 33-118 Green  
I 579 33-118 Blue

NET EACH 12c  
EACH 11c

INSULATED TIP PLUGS  
ype 33-148 "Senior" Solder-  
less Phone Tip Plug. Has  
lled nut for fastening wire.  
long. Shpg. wt., 2 oz.  
H 240. 1-9, NET EACH 10c  
EACH 9c

ype 33-142 "Junior" Solder-  
less Phone Tip Plug. As  
e, but 1 1/2" long. 2 oz.  
H 230. 1-9, NET EACH 10c  
EACH 9c

ype 33-150 Heavy-Duty  
ord Tip Plug. Fits standard  
e tip jacks. 1 1/2" long. 2 oz.  
H 125. 1-9, NET EACH 3c  
EACH 2 1/2c

ype 33-156 Standard Cord  
Tip. For test panels, head-  
es, etc. Length, 1 1/2". 2 oz.  
H 200. 1-9, NET EA. 2 1/2c  
EACH 1 1/2c

## MOLDED METER PLUGS

S Banana-Type Meter Plug.  
Four-leaved phosphor bronze  
spring; nickel-plated. Tip is 1 1/2"  
long. Shpg. wt., 2 oz.

| No.      | Type   | Color |
|----------|--------|-------|
| 41 H 467 | 33-046 | Red   |
| 41 H 468 | 33-048 | Black |

1-9, NET EACH 35c  
10-49, EACH 31c

T Meter Tip Plug. Molded in  
two halves for easy assembly  
with screw and nut. Nickel-plated  
tip is 1 1/2" long. Shpg. wt., 2 oz.

| No.      | Type   | Color |
|----------|--------|-------|
| 41 H 203 | 33-128 | Red   |
| 41 H 204 | 33-130 | Black |

1-9, NET EACH 26c  
10-49, EACH 24c

## BANANA PLUGS

L Insulated, Spring Tip.  
Molded Bakelite handle. Wire  
can be soldered to brass stud  
which is supplied, or directly into  
plug. Length, 1 1/2". Wt., 2 oz.

| No.      | Type   | Color  |
|----------|--------|--------|
| 41 H 593 | 33-000 | Red    |
| 41 H 594 | 33-002 | Black  |
| 41 H 595 | 33-000 | Yellow |
| 41 H 596 | 33-000 | Green  |
| 41 H 597 | 33-000 | Blue   |

1-9, NET EACH 21c  
10-49, EACH 19c

M Insulated, Split Tip. Nickel-  
plated, cross-slotted tip. Wire  
can be soldered to brass stud  
which is supplied. 1 1/2". 2 oz.

| No.      | Type   | Color  |
|----------|--------|--------|
| 41 H 428 | 33-012 | Red    |
| 41 H 427 | 33-014 | Black  |
| 41 H 067 | 33-012 | Yellow |
| 41 H 068 | 33-012 | Green  |
| 41 H 069 | 33-012 | Blue   |

1-9, NET EACH 18c  
10-49, EACH 16c

N Type 33-028 Insulated,  
Spring Tip. Tenite handle.  
Silver-plated tip. Fits all standard  
banana jacks. Four leaved spring  
provides lasting contact. Length,  
1 1/2". Shpg. wt., 2 oz.  
41 H 407. Red 1-9,  
41 H 408. Black NET EA. 32c  
10-49, EACH 28c

P Insulated, Spring Tip. Sol-  
derless; has set screw in baki-  
lite handle. Nickel-plated tip.  
Length, 1 1/4". Shpg. wt., 2 oz.

| No.      | Type   | Color  |
|----------|--------|--------|
| 41 H 405 | 33-006 | Red    |
| 41 H 410 | 33-008 | Black  |
| 41 H 402 | 33-006 | Yellow |
| 41 H 403 | 33-006 | Green  |
| 41 H 404 | 33-006 | Blue   |

1-9, NET EACH 18c  
10-49, EACH 16c

R Insulated, Split Tip. Solder-  
less; has set screw in handle.  
1 1/4". Shpg. wt., 2 oz.

| No.      | Type   | Color  |
|----------|--------|--------|
| 41 H 425 | 33-018 | Red    |
| 41 H 430 | 33-020 | Black  |
| 41 H 412 | 33-018 | Yellow |
| 41 H 413 | 33-018 | Green  |
| 41 H 414 | 33-018 | Blue   |

1-9, NET EACH 18c  
10-49, EACH 16c

## BANANA PLUGS

W Type 33-032 Insulated,  
Spring Tip. Nickel-plated  
brass tip. Wire can be soldered to  
brass stud supplied. 1 1/2". 2 oz.

|                  |          |
|------------------|----------|
| 41 H 462. Red    | 1-9,     |
| 41 H 463. Black  | NET EACH |
| 41 H 464. Yellow | 10c      |
| 41 H 465. Green  |          |
| 41 H 466. Blue   | 18c      |

10-49, EACH 16c

X Type 33-034 All-Metal,  
Spring Tip. Has solder lug.  
Four-leaved spring. Nickel-plated.  
6-32x1/2" stud. 1 1/2". 2 oz.

41 H 400. 1-9, NET EACH 15c  
10-49, EACH 13c

Y Type 33-062 All-Metal,  
Spring Tip. As above, but  
internal threads permit use on all  
size panels. 1 1/2". 2 oz.

41 H 488. 1-9, NET EACH 15c  
10-49, EACH 13c

Z Type 33-064 All-Metal,  
Spring Tip. Nickel-plated,  
one-piece construction. 6-32x3/8"  
stud. Length, 1 1/2". Wt., 2 oz.

41 H 489. 1-9, NET EACH 15c  
10-49, EACH 13c

## TIP JACKS

AA Miniature Nylon Tip Jacks.  
Has silver-plated, beryllium  
copper contact. Fits in 1/4" hole;  
mounts in panels up to 1/4" thick.  
Oversize size, 3/8x3/8" dia. 2 oz.

| No.      | Type   | Color  |
|----------|--------|--------|
| 41 H 495 | 33-242 | Red    |
| 41 H 496 | 33-240 | Black  |
| 41 H 497 | 33-240 | Yellow |
| 41 H 498 | 33-240 | Green  |
| 41 H 499 | 33-240 | Blue   |

1-9, NET EACH 26c  
10-49, EACH 24c

BB Nylon Tip Jack. Completely  
insulated; has phosphor  
bronze contact. 1 1/2x1/2". 2 oz.

| No.      | Type   | Color  |
|----------|--------|--------|
| 41 H 012 | 33-216 | Red    |
| 41 H 013 | 33-218 | Black  |
| 41 H 014 | 33-216 | Yellow |
| 41 H 015 | 33-216 | Green  |
| 41 H 016 | 33-216 | Blue   |

1-9, NET EACH 18c  
10-49, EACH 16c

CC Insulated Tip Jack. Body  
is nickel-plated brass. Jack  
mounts in 3/8" hole in panels up to  
3/8" thick. 1 1/2x1/2". 2 oz.

| No.      | Type   | Color  |
|----------|--------|--------|
| 41 H 110 | 33-210 | Red    |
| 41 H 115 | 33-212 | Black  |
| 41 H 432 | 33-210 | Yellow |
| 41 H 433 | 33-210 | Green  |
| 41 H 434 | 33-210 | Blue   |

1-9, NET EACH 13c  
10-49, EACH 12c

DD Type 33-208 Insulated Tip  
Jack. Has sturdy molded  
nylon head and insulating washer.  
Nickel-plated brass body. Mounts  
in 3/8" hole. Shpg. wt., 2 oz.

|                  |          |
|------------------|----------|
| 41 H 024. Red    | 1-9,     |
| 41 H 025. Black  | NET EACH |
| 41 H 026. Yellow | 18c      |
| 41 H 027. Green  |          |
| 41 H 028. Blue   | 16c      |

## TIP JACK

EE Type 33-226 Non-Insu-  
lated Tip Jack. 1/4" mtg.  
hole; 3/8" max. panel thickness.  
Shpg. wt., 2 oz.

41 H 001. 1-9, NET EACH 10c  
10-49, EACH 9c

## BANANA JACKS

FF Insulated Banana Jack.  
With solder lug and remov-  
able insulated tip. Requires 3/8"  
hole; for panels up to 3/8" thick.  
2 1/2" long. Shpg. wt., 2 oz.

| No.      | Type   | Color  |
|----------|--------|--------|
| 41 H 475 | 33-180 | Red    |
| 41 H 480 | 33-182 | Black  |
| 41 H 422 | 33-180 | Yellow |
| 41 H 423 | 33-180 | Green  |
| 41 H 424 | 33-180 | Blue   |

1-9, NET EACH 13c  
10-49, EACH 12c

GG Insulated Banana Jack.  
Has molded plastic head.  
Fits 3/8" mounting hole; for 3/8"  
max. panel thickness. 2 oz.

| No.      | Type   | Color  |
|----------|--------|--------|
| 41 H 033 | 33-186 | Red    |
| 41 H 034 | 33-186 | Black  |
| 41 H 035 | 33-186 | Yellow |
| 41 H 036 | 33-186 | Green  |
| 41 H 037 | 33-186 | Blue   |

1-9, NET EACH 15c  
10-49, EACH 13c

HH Type 33-220 Insulated Ba-  
nana Jack. Molded nylon  
head and insulating washer. 3/8"  
mtg. hole; 3/8" max. 2 oz.

|                  |          |
|------------------|----------|
| 41 H 042. Red    | 1-9,     |
| 41 H 043. Black  | NET EACH |
| 41 H 044. Yellow | 18c      |
| 41 H 045. Green  |          |
| 41 H 046. Blue   | 16c      |

1-9, NET EACH 16c  
10-49, EACH 14c

JJ Type 33-184 Non-Insu-  
lated Banana Jack. Brass  
tinned lug. 1/4" mtg. hole; 3/8"  
max. panel thickness. 2 oz.

41 H 047. 1-9, NET EACH 10c  
10-49, EACH 9c

KK Type 33-192 Non-Insu-  
lated Banana Jack. 1/4"  
mtg. hole; 3/8" thick. 2 oz.

41 H 470. 1-9, NET EACH 10c  
10-49, EACH 9c

## COMBINATION JACK

LL Insulated Combination  
Tip Jack. Accommodates all  
standard phone tip or banana  
plugs. Nickel-plated brass body.  
Mounts in 3/8" hole; panels to 3/8"  
thick. Length, 1 1/2". Wt., 2 oz.

| No.      | Type   | Color  |
|----------|--------|--------|
| 41 H 130 | 33-194 | Red    |
| 41 H 135 | 33-196 | Black  |
| 41 H 137 | 33-194 | Yellow |
| 41 H 138 | 33-194 | Green  |
| 41 H 143 | 33-194 | Blue   |

1-9, NET EACH 16c  
10-49, EACH 14c

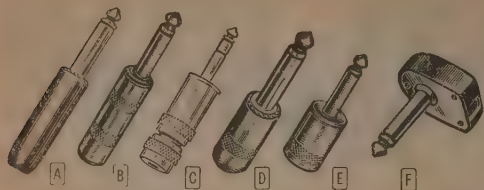
## INSULATED SPADE LUG

MM Banana Plug To Spade  
Lug Adapter. Jack in rear  
allows insertion of banana plug.  
1 1/2" long. 3/8" O.D. 2 oz.

| No.      | Type   | Color |
|----------|--------|-------|
| 41 H 048 | 33-300 | Red   |
| 41 H 049 | 33-302 | Black |

1-9, NET EACH 11c  
10-49, EACH 10c

# Switchcraft Plugs and Jacks



## "LITTEL-PLUG" PHONE PLUGS

Small-size phone plugs; fit standard 1/4" phone jacks, except \*Types S250 and S280, 206" sleeve for S-11 "Littel-Jax" and for Bell and Howell equipment; \*Type R280 which has short sleeve for Revere recorders. Plugs with solder terminals feature built-in cable clamp; others do not include cable clamp. Metal (shielded) handles are nickel-plated brass. Handles are 1 1/4" long; 1/2" dia. Av. shpg. wt., 4 oz.

| Stock No. | Mfr's Type | Fig. | Cond. | Handle Color | Terminals | NET EACH |
|-----------|------------|------|-------|--------------|-----------|----------|
| 41 H 553  | 240        | A    | 2     | Black        | Screw     | 44c      |
| 41 H 554  | 245        | A    | 2     | Red          | Screw     | 44c      |
| 41 H 61   | 250        | A    | 2     | Black        | Solder    | 41c      |
| 41 H 614  | S250*      | A    | 2     | Black        | Solder    | 44c      |
| 41 H 612  | 255        | A    | 2     | Red          | Solder    | 41c      |
| 41 H 555  | 260        | A    | 3     | Black        | Solder    | 62c      |
| 41 H 616  | 267        | A    | 3     | Black        | Solder    | 62c      |
| 41 H 573  | 270        | B    | 2     | Metal        | Screw     | 62c      |
| 41 H 613  | 280        | B    | 2     | Metal        | Solder    | 59c      |
| 41 H 556  | R280*      | B    | 2     | Metal        | Solder    | 73c      |
| 41 H 719  | S280*      | B    | 2     | Metal        | Solder    | 59c      |
| 41 H 617  | 297        | B    | 3     | Metal        | Solder    | 76c      |

## STANDARD PHONE PLUGS

Standard size 1/4" phone plugs. Metal (shielded), red or black bakelite handles; 2 1/4" long, 3/8" dia., except \*1" long. Type 170 is similar to 70, but has 2-piece handle with cable clamp for 1/2" cable. No. 190A is similar to 90, but has same handle as 170. Av. shpg. wt., 5 oz.

| Stock No. | Mfr's Type | Fig. | Cond. | Handle Color | Terminals | NET EACH |
|-----------|------------|------|-------|--------------|-----------|----------|
| 41 H 557  | 40         | A    | 2     | Black        | Screw     | .44      |
| 41 H 447  | 45         | A    | 2     | Red          | Screw     | .44      |
| 41 H 558  | 60         | A    | 2     | Black        | Solder    | .62      |
| 41 H 559  | 70         | B    | 2     | Metal        | Screw     | .71      |
| 41 H 560  | 90*        | E    | 3     | Metal        | Solder    | .76      |
| 41 H 561  | 160*       | E    | 2     | Metal        | Screw     | .53      |
| 41 H 562  | 170        | C    | 2     | Metal        | Screw     | .97      |
| 41 H 563  | 190A       | C    | 3     | Metal        | Solder    | 1.15     |

## "LUG-PLUG" PHONE PLUGS

Low-cost, two-conductor, phone plugs. All fit 1/4" jacks except, \*fits S-11 "Littel-Jax". Have solder terminals. Exterior parts bright nickel plated. Red or black handles are 1 1/4" long, 1/2" diameter. Types 380 and 385 have shielded handles. 1 1/4" long. Av. wt., 4 oz.

| Stock No. | Type | Figure | Color | NET |
|-----------|------|--------|-------|-----|
| 41 H 564  | 350  | A      | Black | 32c |
| 41 H 565  | 355  | A      | Red   | 32c |
| 41 H 566  | 380  | D      | Metal | 41c |
| 41 H 448  | 385* | D      | Metal | 59c |

## FLAT PHONE PLUGS

1/4" phone plugs featuring flat, space-saving handles. Ideal for applications where conventional plugs would protrude too far and interfere with operation of equipment, prevent installation in tight quarters, etc. Easily removable plastic handle. All have screw terminals. Types 220 and 225 will accept standard phone tips. Terminals and body are mechanically interlocked. Shpg. wt., 4 oz.

| Stock No. | Mfr's Type | Fig. | Conductors | Handle Color | NET EACH |
|-----------|------------|------|------------|--------------|----------|
| 41 H 621  | 220        | F    | 2          | Black        | 53c      |
| 41 H 567  | 225        | F    | 2          | Red          | 53c      |
| 41 H 568  | 230        | F    | 3          | Black        | 76c      |
| 41 H 569  | 235        | F    | 3          | Red          | 76c      |

## MILITARY-TYPE "LITTEL-PLUGS" AND EXTENSION JACK



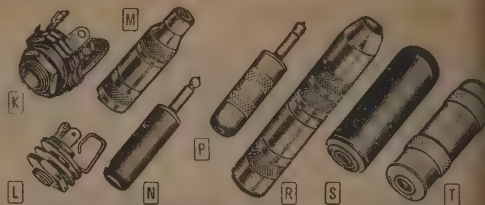
Meet exacting industrial and military requirements. Plugs are made in accordance with MIL-P-642A specs, except 475, made to MIL-P-642(D). Type 820 extension jack is designed to meet MIL-P-641A specs. Firm internal interlock; parts. Black plastic handles; \*metal handles. Extension jack fits \*metal handles. "Littel-Plug." All have screw terminals. \*Built-in cable clamp. Av. shpg. wt., 5 oz.

| Stock No. | Mfr's Type | Fig. | Cond. | JAN Type | Old S.C. No. | NET EACH |
|-----------|------------|------|-------|----------|--------------|----------|
| 41 H 570  | 430        | G    | 2     | PJ-054B  | PI-54        | .82      |
| 41 H 618  | 440        | G    | 2     | PJ-053   | PI-55        | .82      |
| 41 H 449  | 470*       | G    | 2     | PJ-055M  | PI-125       | 1.19     |
| 41 H 461  | 475**      | H    | 2     | PJ-636   | PI-636       | 2.12     |
| 41 H 602  | 480        | H    | 3     | PJ-068   | PI-68        | 1.18     |
| 41 H 619  | 820        | J    | 2     | PJ-026   | JK-26        | 1.18     |

## SERIES 500 JACK COVERS

Spring-loaded phone jack covers. Snap over jack opening when plug is removed; provide dust and moisture-proof seals. Use with conventional 3/4"-32 threaded bushing type jacks. Locknut seals into molded rubber washer when closed. 3 oz.

| No.      | Type | Color         | NET | No.      | Type | Color     | NET |
|----------|------|---------------|-----|----------|------|-----------|-----|
| 41 H 490 | 510  | Olive Drab    | .62 | 41 H 492 | 515  | Black     | .62 |
| 41 H 491 | 512  | Bright Nickel | .62 | 41 H 493 | 520  | Navy Gray | .62 |



## "LITTEL-JAX" PHONE JACKS

K Take standard 1/4" phone plugs, except \*S-11, which takes S250 and 385 plugs, and C-12B which takes 480 Military-Type "Littel-Plug" 3/8" dia. 1 1/4" overall, with a 3/8" dia. threaded shank. L long. L-11 and L-12A have bushing 3/4" long. SCC indicates single closed circuit; OC indicates open circuit. Av. shpg. wt., 3 oz.

| Stock No. | Type  | Diag. | Cond. | Circuit | JAN Type | NET |
|-----------|-------|-------|-------|---------|----------|-----|
| 41 H 622  | I-1   | I     | 2     | OC      |          | 24c |
| 41 H 479  | C-11  | I     | 2     | OC      | JJ-034   | 35c |
| 41 H 607  | S-11* | I     | 2     | OC      |          | 29c |
| 41 H 624  | 12A   | I     | 2     | SCC     |          | 26c |
| 41 H 631  | C-12A | II    | 2     | SCC     | JJ-089   | 44c |
| 41 H 469  | L-12A | II    | 2     | SCC     |          | 32c |
| 41 H 632  | L-12B | III   | 3     | SCC     |          | 41c |
| 41 H 633  | C-12B | III   | 3     | OC      | JJ-033   | 44c |
| 41 H 634  | 13B   | IV    | 3     | SCC     |          | 44c |

## "TINI-JAX" SUB-MINIATURE PHONE JACKS

L Extra-small 2-conductor jacks for "Tini-Plugs", 1 1/4" long; fit 1/4" hole. OC, open circuit; CC, closed circuit. Av. shpg. wt., 2 oz.

|          |     |    |   |    |     |
|----------|-----|----|---|----|-----|
| 41 H 516 | 41  | I  | 2 | OC | 24c |
| 41 H 517 | 42A | II | 2 | CC | 26c |

M New Type 125 "Tini-Extension Jack". Two-conductor; solder terminals. Mates with "Tini-Plugs", below. Wt., 2 oz.

|          |     |     |
|----------|-----|-----|
| 41 H 472 | NET | 73c |
|----------|-----|-----|

## "TINI-PLUGS" SUB-MINIATURE PHONE PLUGS

For use with "Tini-Jax". 1 1/4" overall length, 2-conductor. Wt., 2 oz.

| Stock No. | Type | Fig. | Ter.   | Handle   | NET |
|-----------|------|------|--------|----------|-----|
| 41 H 518  | 740  | N    | Screw  | Black    | 44c |
| 41 H 519  | 745  | N    | Screw  | Red      | 44c |
| 41 H 520  | 750  | N    | Solder | Black    | 41c |
| 41 H 521  | 755  | N    | Solder | Red      | 41c |
| 41 H 522  | 760  | P    | Solder | Shielded | 41c |
| 41 H 523  | 780  | P    | Solder | Shielded | 59c |

## "EXTENSION JAX" CABLE EXTENSION JACKS

Fit standard 1/4" plugs. 1 1/4" O.D.; 2 1/4" long. 121 and 131 1/2" O.D.; 2 1/4" long. All are open circuit type. Shpg. wt., 3 oz.

| Stock No. | Type | Fig. | Cond. | Ter.   | Handle   | NET  |
|-----------|------|------|-------|--------|----------|------|
| 41 H 571  | 80   | S    | 2     | Screw  | Black    | .68  |
| 41 H 718  | 83   | S    | 2     | Solder | Black    | .59  |
| 41 H 572  | 120  | T    | 2     | Screw  | Shielded | .91  |
| 41 H 473  | 121  | R    | 2     | Solder | Shielded | .94  |
| 41 H 474  | 131  | R    | 3     | Solder | Shielded | 1.18 |
| 41 H 717  | 1230 | T    | 3     | Screw  | Shielded | 1.15 |

## "MT-JAX" SWITCHBOARD-TYPE JACKS



Meet Military specifications. 1/2" wide, 3/4" long. Fit 1/4" hole. CC, closed circuit; OC, open circuit. Shpg. wt., 3 oz.

| Stock No. | Type    | Diag. | Cond. | Circuit | JAN    | NET  |
|-----------|---------|-------|-------|---------|--------|------|
| 41 H 603  | MT-331  | I     | 2     | OC      | JJ-086 | .88  |
| 41 H 604  | MT-332A | II    | 2     | CC      | JJ-024 | 1.00 |
| 41 H 606  | MT-332B | III   | 3     | OC      | JJ-022 | 1.00 |
| 41 H 477  | MT-332C | VI    | 4     | CC, OC  | JJ-016 | 1.15 |
| 41 H 478  | MT-334B | V     | 4     | 2-CC    | JJ-042 | 1.18 |

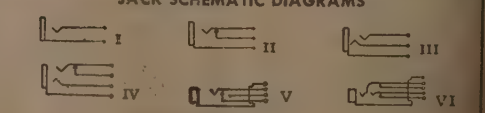
## PHONO JACKS AND PLUGS



Easy-to-install phono jacks and pin plugs. Type 3501FP is for front panel mounting in 1/4" hole—fits panel up to 1/4" thick. 3501FR for rear panel mounting in 3/4" hole—fits panel up to 3/4" thick. 3501MC is unsheathed, has 3/8" O.D. shell with cable clamp. Av. shpg. wt., 3 oz.

|           |                                     |     |     |
|-----------|-------------------------------------|-----|-----|
| 41 H 758. | Type 3501FP Jack (Fig. W).          | NET | 21c |
| 41 H 759. | Type 3501FR Jack (Fig. X).          | NET | 24c |
| 41 H 772. | Type 3503R Extension Jack (Fig. Y). | NET | 35c |
| 41 H 768. | Type 3502 Plug (Fig. Z).            | NET | 29c |
| 41 H 763. | Type 3501MC Plug (Fig. AA).         | NET | 96c |

## JACK SCHEMATIC DIAGRAMS







# Alligator Clips, Binding Posts, Plugs



## MUELLER CLIPS AND FLEXIBLE INSULATORS

For high-frequency equipment, experimental setups, electroplating, countless other uses. Quality springs maintain firm grip; lead-plated

clips resist battery acid. Solid copper types have low resistance, are non-magnetic. Slip-on insulators (Fig. K) are listed for all types.

### MESH TEETH TEST CLIPS

**A** For general purpose use. \*Solid Copper. †Solid bronze. ‡Cadmium-plated steel. †Insulation-piercing needle. Av. shpg. wt., 3 oz.

| Stock No. | Type  | Amps | Size   | NET |
|-----------|-------|------|--------|-----|
| 45 H 000  | ‡4S   | 5    | 1 1/2" | 7¢  |
| 45 H 005  | ‡4SC  | 10   | 1 1/2" | 13¢ |
| 45 H 010  | ‡4SB  | 10   | 2"     | 10¢ |
| 45 H 078  | ‡4SC  | 10   | 2"     | 14¢ |
| 45 H 087  | ‡150C | 10   | 2 1/4" | 25¢ |

### LEAD-PLATED BATTERY CLIPS

**A** For moderately heavy current work, including battery charging, electroplating, and light welding. Av. shpg. wt., 4 oz.

|          |     |     |        |     |
|----------|-----|-----|--------|-----|
| 45 H 020 | 24A | 25  | 2 1/2" | 22¢ |
| 45 H 030 | 21A | 50  | 2"     | 39¢ |
| 45 H 040 | 11A | 100 | 6"     | 98¢ |

### SOLID COPPER CLIPS

**A** Heavy-duty, high-conductivity, solid copper clips. Shpg. wts.: 24C, 3 oz.; 21C, 5 oz.; 11C, 8 oz.; 33C, 1 lb.

|          |     |     |        |      |
|----------|-----|-----|--------|------|
| 45 H 025 | 24C | 50  | 2 1/2" | .39  |
| 45 H 035 | 21C | 100 | 2 1/2" | .89  |
| 45 H 045 | 11C | 200 | 6"     | 1.67 |
| 45 H 050 | 33C | 300 | 7 1/2" | 3.19 |

### 3-SIDED MESH TEETH CLIPS

**B** \*Cadmium-plated steel; \*solid copper. Jaws open 1/2". Shpg. wt., 2 oz.

|          |      |    |        |     |
|----------|------|----|--------|-----|
| 45 H 015 | ‡27  | 20 | 2 1/4" | 13¢ |
| 45 H 097 | *27C | 40 | 2 1/4" | 20¢ |

### INSULATED ALLIGATOR CLIPS

**C** \*Cadmium-plated steel; \*solid copper. Vinyl plastic insulation. Shpg. wt., 2 oz.

| Stock No. | Type | Amps | Size   | NET |
|-----------|------|------|--------|-----|
| 45 H 140  | ‡63  | 10   | 2 1/2" | 27¢ |
| 45 H 141  | *63C | 10   | 2 1/2" | 29¢ |

### 70 SERIES ALLIGATOR CLIPS

**D** \*Cadmium-plated steel; \*solid copper; solder connection; †screw connected. 3 oz.

|          |       |    |        |     |
|----------|-------|----|--------|-----|
| 45 H 170 | 70S†  | 5  | 1 1/4" | 7¢  |
| 45 H 171 | 70S†  | 5  | 1 1/4" | 8¢  |
| 45 H 172 | 70CS† | 10 | 1 1/4" | 11¢ |

### INSULATED BARREL ALLIGATOR CLIPS

**E** Made of cadmium-plated steel, except \*solid copper. Jaws open 3/4". Av. wt., 2 oz.

| Stock No. | Type   | Size   | Description  | NET |
|-----------|--------|--------|--------------|-----|
| 45 H 070  | 60HS   | 2 1/2" | Red handle   | 12¢ |
| 45 H 075  | 60HS   | 2 1/2" | Black handle | 12¢ |
| 45 H 090  | *60CHS | 2 1/2" | Red handle   | 15¢ |
| 45 H 095  | *60CHS | 2 1/2" | Black handle | 15¢ |

### CROCODILE CLIPS

**F** \*Solid copper; \*cadmium-plated steel; †Phone tip on one jaw. Shpg. wt., 2 oz.

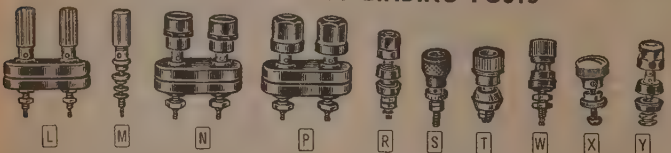
|          |       |                   |     |
|----------|-------|-------------------|-----|
| 45 H 060 | ‡52   | ‡Screw Connection | 9¢  |
| 45 H 062 | *‡52C | ‡Screw Connection | 16¢ |
| 45 H 098 | ‡127  | ‡Tip-Clip         | 21¢ |

### NON-FERROUS R.F. TEST CLIP

**G** Phosphor bronze clip with brass screw. Ideal for tapping small transmitter coils; also for work in covered chassis. Shpg. wt., 2 oz.

|          |    |        |                 |     |
|----------|----|--------|-----------------|-----|
| 45 H 051 | 88 | 1 1/4" | Ideal for coils | 22¢ |
|----------|----|--------|-----------------|-----|

## G-C ELECTROCRRAFT BINDING POSTS



**L** Type 33-276. Dual binding post assembly with metal heads. Accepts single or dual banana plugs, wire and phone tips either forward or sideways. Mounts in two 1/4" holes on 1/4" thick. Body: brass, nickel-plated. Head: captive-type, hex brass, nickel-plated. Washer: molded black styrene. With wrap-around solder studs. Has 3/4x1 1/2" rounded black base. With 4 hex nuts, 2 flat washers, 4 oz.

41 H 326. NET.....59c

**M** Type 33-286. Five-way metal binding post. Accepts banana plug, phone tip, spade lug, alligator clip or wire strand. Mounts in 1/4" hole in panels from 1/4" to 1/2" thick. Body: brass, nickel-plated. Head: captive, hex brass nickel-plated. Has wrap-around solder stud. With 2 mounting nuts, 3 oz.

41 H 327. NET.....21c

**N** Type 33-288. Dual 5-way binding post assembly with black, insulated fluted heads. Accepts single or dual banana plugs. Mounts in 1/4" holes on 1/4" thick. Has solder stud, 3/4x1 1/2" base. Body: brass, nickel-plated. With 4 mounting nuts. Shpg. wt., 4 oz.

41 H 328. NET.....53c

**P** Type 33-290. Dual 5-way binding post assembly with black hex-grip insulated heads. Accepts dual banana plug. Mounts in 2—1/4" holes on 3/4" thick, 1/4x1/4" panels. Has solder studs, 1/4x1 1/2" rounded base, 4 oz.

41 H 329. NET.....65c

**41 H 324. Type 33-292.** As above, but with one black, one red head. NET.....65c

| Stock No. | Type     | Fig. | Mtg.   | Lth.   | Color | NET |
|-----------|----------|------|--------|--------|-------|-----|
| 41 H 368  | 33-268-R | R    | 1/2"   | 1 1/2" | Red   | 35¢ |
| 41 H 367  | 33-270-R | R    | 1/2"   | 1 1/2" | Red   | 35¢ |
| 41 H 330  | 33-256-T | T    | 1 1/4" | 1 1/4" | Black | 18¢ |
| 41 H 331  | 33-258-T | T    | 1 1/4" | 1 1/4" | Black | 18¢ |
| 41 H 388  | 33-267-W | W    | 1/2"   | 1 1/2" | White | 26¢ |
| 41 H 389  | 33-265-T | T    | 1/2"   | 1 1/2" | Black | 25¢ |
| 41 H 394  | 33-294R  | R    | 1/2"   | 1 1/2" | Red   | 25¢ |
| 41 H 395  | 33-294B  | B    | 1/2"   | 1 1/2" | Black | 25¢ |
| 41 H 397  | 33-261-W | W    | 1/2"   | 1 1/2" | White | 25¢ |
| 41 H 398  | 33-296-W | W    | 1/2"   | 1 1/2" | Black | 25¢ |

**X** Type 33-284. Brass, for heavy-duty use. 1/2" long, 1/4" mtg. hole. 2 oz.

41 H 371. 10-49. 1/4". 1-9. NET EA. 15c

## SUPERIOR BINDING POSTS

| Stock No. | Type     | Color  | NET EACH |
|-----------|----------|--------|----------|
| 41 H 172  | DF-30VC  | Yellow |          |
| 41 H 173  | DF-30CNC | Green  |          |
| 41 H 174  | DF-30WTC | White  |          |
| 41 H 177  | DF-30BC  | Black  |          |
| 41 H 178  | DF-30RC  | Red    |          |
| 41 H 198  | DF-30BLC | Blue   |          |

40c

### ALLIGATOR CLIPS

**H** Steel, except \*Solid copper; †Solder type. "S" - screw type. Slim jaws for close work. Jaws open 1/4". Shpg. wt., 2 oz.

| Stock No. | Type  | Size | Description      | NET |
|-----------|-------|------|------------------|-----|
| 45 H 200  | ‡60   | 2"   | Fit banana plugs | 7¢  |
| 45 H 060  | ‡60S  | 2"   | Fit banana plugs | 8¢  |
| 45 H 080  | *60CS | 2"   | Fit banana plugs | 12¢ |

### "MINI-GATOR" CLIPS

**J** Miniaturized—1/4" jaw opening, 1/4" O.D. tip. \*Cadmium-plated steel; \*solid copper. Shpg. wt., 2 oz.

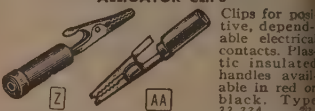
| Stock No. | Type  | Amps | Size   | NET |
|-----------|-------|------|--------|-----|
| 45 H 142  | ‡30   | 5    | 1 1/4" | 7¢  |
| 45 H 143  | *‡30C | 10   | 1 1/4" | 8¢  |

### SLIP-ON INSULATORS FOR CLIPS

**K** Tough, flexible plastic. High dielectric strength; resistant to oils and grease. Covers entire clip except for end of nose. Av. shpg. wt. per pkg., 5 oz. 2 insulators per pkg.; one red, one black.

| Stock No. | Mfr's Type | For Use With  | NET PER PKG. |
|-----------|------------|---------------|--------------|
| 45 H 167  | 13         | Series 11     | 1.67         |
| 45 H 164  | 23         | Series 21     | .90          |
| 45 H 163  | 26         | Series 24     | .45          |
| 45 H 166  | 29         | Series 27     | .29          |
| 45 H 144  | 32         | Series 30     | .12          |
| 45 H 162  | 35         | Series 33     | 5.74         |
| 45 H 160  | 47         | Series 45     | .12          |
| 45 H 161  | 49         | Series 48, 50 | .12          |
| 45 H 165  | 62         | Series 60     | .12          |
| 45 H 168  | 87         | Series 85     | .12          |
| 45 H 169  | 93         | Series 88     | .24          |

## G-C ELECTROCRRAFT ALLIGATOR CLIPS



Clips for positive, dependable electrical contacts. Plastic insulated handles, available in red or black. Type 33-334, 33-330, 33-332, 33-336 are Fig. 2; others are Fig. AA. Clips are steel cadmium-plated. Springs maintain firm grip. Types 33-304 and 33-306 are all-insulated to prevent shock or grounding. All accept red, phone tip or banana plug except Type 33-366 which has solder connection. Av. wt., 2 oz.

| Stock No. | Type   | Color | Description              | NET |
|-----------|--------|-------|--------------------------|-----|
| 41 H 300  | 33-334 | Red   | With tip jack adapter.   | 32¢ |
| 41 H 305  | 33-336 | Black | With tip jack adapter.   | 32¢ |
| 41 H 303  | 33-330 | Red   | Comb. tip & banana jack. | 38¢ |
| 41 H 169  | 33-332 | Black | Comb. tip & banana jack. | 38¢ |
| 41 H 373  | 33-364 | Red   | With tip jack adapter.   | 35¢ |
| 41 H 374  | 33-364 | Black | With tip jack adapter.   | 35¢ |
| 41 H 382  | 33-366 | Red   | Solder type connection.  | 24¢ |
| 41 H 383  | 33-366 | Black | Solder type connection.  | 24¢ |

**DUAL BANANA PLUG**  
Type 33-010. Single molded unit on std. 3/4" size. Polarity indicated on top and side. Can be stacked for multiple connections. Body, 1 1/4x1/2". 3 oz.

41 H 325. NET.....71c

### SUPERIOR "DUB-L-PLUGS"

Dual contact plugs. Conducting parts are gold-plated. Encased insulating nylon shells except \*shielded and chrome plated. Shpg. wt., 3 oz.

| Stock No. | Type    | Color  | NET  |
|-----------|---------|--------|------|
| 41 H 205  | SPG28C* | Chrome | 4.50 |
| 41 H 228  | 1PG28C  | Black  | 2.50 |
| 41 H 209  | 1PG28C  | Yellow | 2.50 |
| 41 H 206  | 1PG28C  | Red    | 2.50 |
| 41 H 207  | 1PG2WTC | White  | 2.50 |
| 41 H 227  | 1PG2GNC | Green  | 2.50 |
| 41 H 208  | 1PG2BLC | Blue   | 2.50 |



## MIDGET RF COILS

A-320-A. Permeability-tuned air band coils enclosed in aluminum shields. For receiver antenna use. Adjustable iron core permeability alignment. Frequency 540-1700 kc.  $1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$  sq. in. 6-32 spade bolt mounting. Wt., 4 oz.  
**34. NET.....1.47**

A-320-RF. Same as above except for receiver use. Shpg. wt., 4 oz.  
**34. NET.....1.47**



## PRINTED CIRCUIT RF CHOKES

Quality, air-core RF chokes on printed circuit boards. Available in a wide range of values for transmitters, test equipment, etc. Circuit type mounting. Quick, easy soldering into circuit. Coil  $\frac{1}{2}$  inch long. Av. shpg. wt., 2 oz.



| L. Type | Mh  | Ohms | Ma  | Dia.                               | EACH |
|---------|-----|------|-----|------------------------------------|------|
| 0 970   | 1   | 17.2 | 125 | $1\frac{1}{16} \times \frac{1}{2}$ | .50  |
| 0 971   | 12  | 19.8 | 125 | $2\frac{1}{8} \times \frac{1}{2}$  | .50  |
| 2 972   | 15  | 21.8 | 125 | $3\frac{1}{4} \times \frac{1}{2}$  | .50  |
| 3 973   | 1.8 | 24.7 | 125 | $3\frac{1}{2} \times \frac{1}{2}$  | .53  |
| 4 974   | 2.2 | 27.4 | 125 | $2\frac{1}{2} \times \frac{1}{2}$  | .53  |
| 5 975   | 2.7 | 31.2 | 125 | $1\frac{1}{2} \times \frac{1}{2}$  | .53  |
| 6 976   | 3.3 | 34.8 | 125 | $1\frac{1}{8} \times \frac{1}{2}$  | .56  |
| 7 977   | 3.9 | 38.9 | 125 | $2\frac{1}{2} \times \frac{1}{2}$  | .56  |
| 8 978   | 4.7 | 43.2 | 125 | $3\frac{1}{2} \times \frac{1}{2}$  | .56  |
| 9 979   | 5.6 | 48   | 125 | $2\frac{1}{2} \times \frac{1}{2}$  | .56  |
| 10 980  | 6.8 | 53.6 | 125 | $1\frac{1}{2} \times \frac{1}{2}$  | .59  |
| 11 981  | 8.2 | 60.8 | 100 | $2\frac{1}{2} \times \frac{1}{2}$  | .59  |
| 0 982   | 10  | 68   | 100 | $3\frac{1}{4} \times \frac{1}{2}$  | .65  |
| 0 983   | 12  | 77   | 100 | $2\frac{1}{2} \times \frac{1}{2}$  | .68  |
| 2 984   | 15  | 87.7 | 100 | $1\frac{1}{2} \times \frac{1}{2}$  | .71  |
| 3 985   | 18  | 97.9 | 100 | $3\frac{1}{2} \times \frac{1}{2}$  | .74  |
| 14 986  | 22  | 108  | 75  | $3\frac{1}{2} \times \frac{1}{2}$  | .82  |
| 15 987  | 27  | 121  | 75  | $1\frac{1}{8} \times \frac{1}{2}$  | .85  |
| 16 988  | 33  | 209  | 75  | $1\frac{1}{8} \times \frac{1}{2}$  | .91  |
| 17 989  | 39  | 231  | 75  | $1\frac{1}{8} \times \frac{1}{2}$  | .94  |
| 18 990  | 47  | 263  | 50  | $2\frac{1}{2} \times \frac{1}{2}$  | .97  |
| 19 991  | 56  | 292  | 50  | $1\frac{1}{8} \times \frac{1}{2}$  | 1.00 |
| 1 992   | 68  | 326  | 50  | $1\frac{1}{8} \times \frac{1}{2}$  | 1.06 |
| 12 993  | 82  | 368  | 50  | $1\frac{1}{8} \times \frac{1}{2}$  | 1.12 |
| 13 994  | 100 | 394  | 50  | $1\frac{1}{8} \times \frac{1}{2}$  | 1.18 |

## 1M-POWER TRANSMITTER CHOKES

In Amateur and class equipment. Low distributed inductance and accurate in values. Multiple inductance forms. Brass terminal clips. Mounting brackets, #6-32 tapped holes.  $1\frac{1}{2} \times 2\frac{1}{2}$  inch long. Shpg. wt., 4 oz.



| No. | Type | mH  | Ohms | Ma  | NET  |
|-----|------|-----|------|-----|------|
| 97  | 4550 | 2.0 | 6.5  | 400 | 1.62 |
| 98  | 4551 | 4.0 | 10.0 | 400 | 1.76 |

## GENERAL RADIO DOUBLE PLUG

274-MB. Dual plug for banana jacks. On  $\frac{1}{4}$  inch diameter. Also accepts phone tips to No. 12. Jacks in tandem. Where rating,  $1\frac{1}{2} \times 1\frac{1}{2}$  inch. Shpg. wt., 3 oz.  
**242. NET.....65c**



## BATTERY BINDING POST

Duty binding post for solid storage batteries. Has separate terminal for cables. Terminal lugs. 5 oz.  
**785. NET.....56c**



## TELEX SUBMINIATURE JACKS AND PLUG

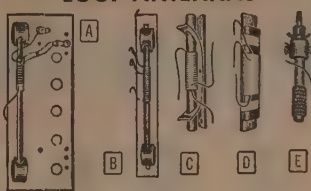
ure plug and jacks, for computing de-lating machines, for radios, tape rs, etc.



PM 01 Plug. Ex-1/2 size, 2-conductor cable up to .150" dia. 1/2" dia. Tip and sleeve, silverplated brass. Wt., 2 oz.  
**243. NET.....36c**

JMP-01 Jack. Closed-circuit type for bave Mtg. bushing, nickel-plated brass. s in 1/4" hole. Silver-plated, beryllium springs; phenolic insulators. 2 oz.  
**242. NET.....24c**

## LOOP ANTENNAS



## FERRITE ROD ANTENNA

**A** Type 705A. For universal replacement use. Uses highly efficient design; improves reception of distant stations. Extremely easy to adjust—simply slide coil along ferrite rod to peak antenna. Non-directional. Replaces any loop antenna,  $3\frac{1}{4} \times 9\frac{1}{2}$  inch. Shpg. wt., 5 oz.  
**60 H 893. NET.....1.76**

## TRANSISTOR LOOP ANTENNA

**B** Type 2000. Has fixed inductance loop; picks up adequate signal to the first stage. Inductor is tapped to match the 600 ohm input impedance of the transistor. Frequency range is 540-1650 kc when used with a 365 mmf variable capacitor.  $1\frac{1}{4} \times 9\frac{1}{2}$  inch. Shpg. wt., 3 oz.  
**60 H 894. NET.....1.76**

## TRANSISTOR ANTENNA RODS

**C** Type 2001. Matches 600 ohm input impedance. Inductance, 240  $\mu$ H. Tunes with 365 mmf.  $\frac{1}{4} \times 3\frac{1}{4}$  inch. Shpg. wt., 4 oz.  
**60 H 976. NET.....1.62**

## STRIP TRANSISTOR ANTENNA RODS

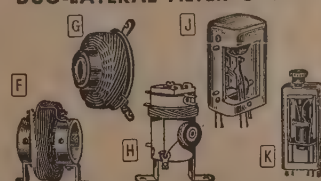
**D** Type 2004. Matches 600 ohm input impedance. Inductance, 240  $\mu$ H. Tunes with 365 mmf.  $\frac{1}{4} \times 3\frac{1}{4}$  inch. Shpg. wt., 4 oz.  
**60 H 978. NET.....1.62**

Type 2005. As above, but 700 microhenries. Use with 125 mmf capacitor.  
**60 H 979. NET.....1.62**

## SUB-MINIATURE ANTENNA ROD

**E** Type 2002. Adjustable from 35-300  $\mu$ H. Hi-Q coil tunes with 500 mmf. Mounts in  $\frac{1}{8}$  inch hole. Bracket supplied. Matches 600 ohm input. Size,  $\frac{1}{2} \times 2\frac{1}{2}$  inch. Shpg. wt., 3 oz.  
**60 H 980. NET.....1.00**

## DUO-LATERAL FILTER CHOKES



**F** Effective line filters. Duo-lateral wound for low distributed capacity. Ideal for use in AC lines to filter RF or noise pulses. Type 7825 is  $1\frac{1}{2} \times 2\frac{1}{2}$  inch wound on bakelite form. Type 7827 is  $2\frac{1}{2} \times 4$  inch, wound on ceramic forms.

| Stock No. | Type | Amps | Ohms | Ohms | Mh   | NET  |
|-----------|------|------|------|------|------|------|
| 70 H 185  | 7825 | 2    | .7   | 5    | .600 | 1.44 |
| 60 H 887  | 7827 | 10   | .15  | 10   | .370 | 3.53 |

## CENTER-TAPPED CHOKES

**G** Duo-lateral wound, single section RF chokes wound with silk-covered enameled copper wire on impregnated ceramic dowels.  $1\frac{1}{2} \times 3\frac{1}{2}$  inch. Shpg. wt., 4 oz.

| Stock No. | Type  | Mh | Ohms | Ma  | NET  |
|-----------|-------|----|------|-----|------|
| 60 H 594  | 670-T | 10 | 67   | 125 | .79  |
| 60 H 588  | 691-T | 20 | 100  | 125 | .88  |
| 60 H 595  | 693-T | 60 | 200  | 100 | 1.18 |

## CAPACITY-OPERATED RELAY COIL

**H** For alarm systems, window displays, etc. With diagram.  $\frac{1}{2} \times 2\frac{1}{2}$  inch. Wt., 4 oz.  
**60 H 589. Type 698. NET.....2.06**

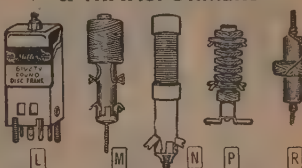
## BEAT FREQUENCY OSCILLATOR COIL

**K** Type 612-M5. Mica tuned air core. Frequency, 132, 127-137 kc range. Has knob for adjustment.  $3\frac{1}{4} \times 1\frac{1}{2} \times 1\frac{1}{2}$  inch. Wt., 4 oz.  
**60 H 821. NET.....2.31**

## 100 KC HI-Q IF TRANSFORMER

**J** Type 1890-P1. For input or interstage.  $3\frac{1}{4} \times 1\frac{1}{2} \times 1\frac{1}{2}$  inch. Shpg. wt., 4 oz.  
**60 H 822. NET.....5.59**

## TV COILS, INDUCTORS & TRANSFORMERS



## SOUND DETECTOR AND OSCILLATOR TRANSFORMERS

**L** Quality TV components. Type 6192 for TV receivers with separate 21.25 mc sound IF channel. Type 1468 for 4.5 mc IF in sets using inter-carrier sound system; Type 6192 is Foster-Seelye type and is normally preceded by one or two limiter stages. Type 1468 is for ratio detector circuits. Type 6194 has tapped coil for horizontal oscillator. Synchronous circuit. Type 6183 dual windings for Sync, Frequency and Phase circuit. Aluminum shields with 6-32 spade bolt mtg. Type 6192,  $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$  inch; 1468,  $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$  inch; 6194 and 6183,  $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$  inch. Shpg. wt., 3 oz.

| Stock No. | Type | Description    | NET  |
|-----------|------|----------------|------|
| 60 H 765  | 6192 | Discriminator  | 1.94 |
| 60 H 799  | 6183 | Hor. Osc.      | 1.91 |
| 60 H 769  | 6194 | IF             | 1.82 |
| 60 H 768  | 1468 | Ratio detector | 2.20 |

## SYNC STABILIZER (RINGING) COIL

**M** Type 6210. Has bakelite form with  $\frac{1}{8}$  inch mounting clip. 16-42 mh range. Size,  $\frac{1}{2} \times 2\frac{1}{2}$  inch. Shpg. wt., 2 oz.  
**60 H 820. NET.....1.47**

## HORIZONTAL LINEARITY AND WIDTH CONTROLS

**N** Iron-core variable inductance coils for horizontal sweep circuits. Have AGC winding. Mounting clip fits  $\frac{1}{8}$  inch hole.  $\frac{1}{2} \times 2\frac{1}{2}$  inch long on phenolic forms. Shpg. wt., 4 oz.

| Stock No. | Type  | Millihenries  | NET  |
|-----------|-------|---------------|------|
| 60 H 826  | 6313  | 5.5           | 1.18 |
| 60 H 827  | 6314  | 2.0-18        | 1.12 |
| 60 H 828  | 6315  | 4.0-30        | 1.12 |
| 60 H 829  | 6316* | 4.0-30        | 1.62 |
| 60 H 830  | 6317* | 3.2-9         | 1.47 |
| 60 H 831  | 6318  | 2-3           | 1.00 |
| 60 H 832  | 6320  | 15.0-60       | 1.07 |
| 60 H 833  | 6321  | 2-3 tapped    | 1.03 |
| 60 H 834  | 6321  | 1.0-5 tapped  | 1.12 |
| 60 H 835  | 6322  | 1.5-10        | 1.18 |
| 60 H 898  | 6324  | 60-130 tapped | 1.47 |

## HIGH-VOLTAGE RF POWER SUPPLY TRANSFORMERS

**P** Type 4525. RF power supply transformer for TV receivers, scopes. Up to 5,000 v. DC. Size,  $3\frac{1}{2} \times 1\frac{1}{2}$  inch. Wt., 4 oz.  
**60 H 754. NET.....5.44**

Type 4526. Up to 10,000 v. DC. (30,000 in rectifier-triplex circuit). Size,  $6 \times 2\frac{1}{2}$  inch. Shpg. wt., 4 oz.  
**60 H 757. NET.....8.82**

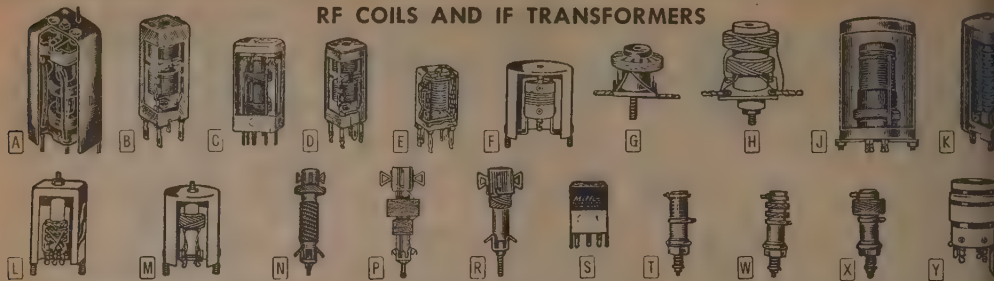
## VIDEO PEAKING & FILAMENT CHOKE COILS

**R** Type 6175 is filament choke. Reduces stray coupling, feedback, etc. Others are video peaking coils for proper bandwidth and wave shape of video signals. Coils without shunt resistor wound on plastic forms, shunt types wound on resistor. Overall size, Type 6175,  $\frac{1}{2} \times 3\frac{1}{2}$  inch diameter; all other types,  $\frac{1}{2} \times 3\frac{1}{2}$  inch diameter. Av. shpg. wt., 2 oz.

| Stock No. | Type | $\mu$ Hs | Shunt | EACH |
|-----------|------|----------|-------|------|
| 60 H 792  | 6172 | 73       | None  | 50c  |
| 60 H 889  | 6153 | 120      | None  |      |
| 60 H 793  | 6173 | 250      | 22 K  |      |
| 60 H 794  | 6174 | 500      | None  |      |
| 60 H 776  | 6175 | 0.8      | None  | 50c  |
| 60 H 888  | 6152 | 20       | None  |      |
| 60 H 777  | 6176 | 36       | None  |      |
| 60 H 778  | 6177 | 93       | None  | 50c  |
| 60 H 779  | 6178 | 129      | 22 K  |      |
| 60 H 780  | 6179 | 180      | 39 K  |      |
| 60 H 781  | 6180 | 180      | None  |      |
| 60 H 890  | 6154 | 200      | None  | 50c  |
| 60 H 782  | 6181 | 250      | None  |      |
| 60 H 891  | 6155 | 300      | None  |      |

# J. W. Miller Coils and IF Transformers

## RF COILS AND IF TRANSFORMERS



### 455-KC IF TRANSFORMERS

**A** Double-tuned air-core, universal input, interstage or output transformers. Universal wound primary and secondary tuned by mica insulated compression-type trimmers for minimum temperature-capacity drift. RETMA (EIA) leads. Size,  $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$ " Wt., 4 oz.

| Stock No. | Type   | Application         | E.A. |
|-----------|--------|---------------------|------|
| 60 H 730  | 512-C1 | Input IF            |      |
| 60 H 749  | 512-C2 | Interstage IF       |      |
| 60 H 741  | 512-C3 | Full-wave output IF | 1.76 |
| 60 H 512  | 512-C4 | Half-wave output IF |      |

### MINIATURE IF TRANSFORMERS

**B** Shell core, permeability tuned IF transformers. For experimental and general replacement use. Tunable powdered iron cores; tuning from top and bottom of shield. \*Built-in diode filter capacitors. Size:  $\frac{3}{8} \times \frac{3}{8} \times 2$ ". With mtg. hardware. Shpg. wt., 4 oz.

| No.      | Type   | Freq.   | Use             | NET  |
|----------|--------|---------|-----------------|------|
| 60 H 727 | 12-C1  | 455 kc  | IF Input        | .59  |
| 60 H 728 | 12-C2  | 455 kc  | IF Output       | .59  |
| 60 H 787 | 12-C3  | 455 kc  | IF Input        | .68  |
| 60 H 716 | 12-C7  | 455 kc  | Input (Batt.)   | .59  |
| 60 H 717 | 12-C8  | 455 kc  | Output (Batt.)  | .59  |
| 60 H 718 | 12-C9  | 455 kc  | Input (AC-DC)   | .59  |
| 60 H 719 | 12-C10 | 455 kc  | Output (AC-DC)  | .59  |
| 60 H 729 | 12-H1  | 262 kc  | IF Input        | 1.71 |
| 60 H 731 | 12-H2  | 262 kc  | IF Output       | 1.71 |
| 60 H 788 | 12-H6  | 262 kc  | IF Output*      | 1.76 |
| 60 H 732 | 1463   | 10.7 mc | Input or Inter. | 1.91 |
| 60 H 733 | 1464   | 10.7 mc | Discriminator   | 2.20 |
| 60 H 734 | 1465   | 10.7 mc | Ratio Detect.   | 2.29 |
| 60 H 789 | 6203   | 4.5 mc  | Input or Inter. | 1.94 |
| 60 H 790 | 6204   | 4.5 mc  | Discriminator   | 2.20 |
| 60 H 791 | 6205   | 4.5 mc  | Ratio Detect.   | 2.20 |

### MIDGET IF TRANSFORMERS

**C** Air-core mica trimmer tuned IF's. Excellent gain and selectivity. .32 spade-bolt mtg.  $1\frac{1}{2} \times 1\frac{1}{2} \times 2$ ". Shpg. wt., 2 oz.

| No.      | Type   | Freq.  | Use        | E.A. |
|----------|--------|--------|------------|------|
| 60 H 735 | 112-C1 | 455 kc | Input      |      |
| 60 H 736 | 112-C2 | 455 kc | Interstage |      |
| 60 H 737 | 112-C3 | 455 kc | CT Output  | 1.76 |
| 60 H 738 | 112-C4 | 455 kc | Output     |      |

### SUBMINIATURE 455KC IF TRANSFORMERS

**D** Extremely small IF transformers with excellent gain and bandwidth characteristics. Ferrite-shell cores provide high efficiency. Pri. and sec. mica-trimmer tuned. Only  $\frac{1}{8}$ " square by  $1\frac{1}{2}$ " high. Shpg. wt., 3 oz.  
60 H 860. Type 10-C1. Input. NET  
60 H 861. Type 10-C2. Output. E.A. 1.65

### TRANSISTOR IF TRANSFORMERS

**S** Subminiature. A tiny 455-kc IF transformer with cup core construction for top performance. Only  $\frac{3}{8}$ " square by  $\frac{1}{2}$ " high. Primary impedance, 25,000 ohms; secondary impedance, \*600 ohms, 11,000 ohms. Will match CK760 and CK761 transistors. Primary is tuned and tapped. Shpg. wt., 3 oz.  
60 H 802. Type 9-C1\*. Input. NET  
60 H 803. Type 9-C2\*. Output. E.A. 2.35

**E** Miniature. High-quality 455-kc IF transformer for compact transistor receivers. Primary impedance, 25,000 ohms; secondary impedance, \*600 ohms, 11,000 ohms. Will match CK760 and CK761 transistors. Primary is tuned and tapped. Shpg. wt., 3 oz.  
60 H 896. Type 2041\*. Input. NET  
60 H 973. Type 2042\*. Output. E.A. 2.06

### BANDPASS COUPLING COIL

**F** Negative mutual coupling coil for hi-fi TRF receivers.  $1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ " Shpg. wt., 4 oz.  
60 H 761. Type EL-66. NET.....88c

### MIDGET OSCILLATOR COILS

**G H** Cover 540-1600 with a 365 mmf capacitor. Series 5480 (Fig. H); single-section secondary with high-impedance primary; for use with pentagrid converters. Series 5481 (Fig. G); no primary, transistor tapped for cathode return; for use with 6BE6 and similar mixers, and with separate oscillator and mixer. Size,  $1 \times 1$ ". Shpg. wt., 4 oz.

| No.      | Type   | IF     | Padder    | EACH |
|----------|--------|--------|-----------|------|
| 60 H 742 | 5480-K | 175 kc | .001 mfd  |      |
| 60 H 884 | 5480-L | 262 kc | .0006 mfd |      |
| 60 H 743 | 5480-C | 455 kc | .0004 mfd | 1.03 |
| 60 H 744 | 5481-C | 455 kc | .0004 mfd |      |
| 60 H 885 | 5481-H | 262 kc | .0006 mfd |      |
| 60 H 981 | 5481-K | 175 kc | .001 mfd  |      |

### DELUXE BANK-WOUND COILS

**J** Shielded antenna RF and bandpass coils. Cover 540-1740 kc with 365 mmf capacitor. Two-bank Litz secondaries. High impedance primaries.  $1\frac{1}{2} \times \frac{1}{2}$ ". Shpg. wt., 4 oz.  
60 H 783. Type 242-A. Ant. NET  
60 H 784. Type 242-B. RF. EACH 1.32  
60 H 797. Type 242-B. Bandpass. NET 1.18

### MINIATURE RF COILS

**K** Shielded iron-core coils for compact receivers. For 365 mmf tuning capacitors. Antenna and osc. coils have tapped sec.  $\frac{3}{4} \times \frac{3}{4} \times 2$ ". \*Requires series pad. Shpg. wt., 4 oz.

| No.      | Type      | Use         | KC Range | E.A. |
|----------|-----------|-------------|----------|------|
| 60 H 798 | X-121-A   | Ant.        | 140-425  |      |
| 60 H 785 | X-121-RF  | RF          | 140-425  | 1.47 |
| 60 H 786 | X-121-C   | Osc.        | *120 mmf |      |
| 60 H 706 | A-121-A   | Antenna     | 540-1700 |      |
| 60 H 707 | A-121-RF  | RF          | 540-1700 | 1.32 |
| 60 H 708 | A-121-OSC | Osc.        | *400 mmf |      |
| 60 H 709 | A-121-H   | Osc. 262 kc | *600 mmf |      |

### ADJUSTABLE RF COILS

**L** Compact, variable-inductance iron-core coils for replacement use. Shielded type. Use with 250-450 mmf variable capacitors. Oscillator coils have tapped secondary.  $1\frac{1}{2} \times 1\frac{1}{2} \times 2\frac{1}{2}$ ". IF frequency. Av. shpg. wt., 5 oz.

| No.      | Type   | Use  | KC Range | E.A. |
|----------|--------|------|----------|------|
| 60 H 748 | 73-A   | Ant. | 500-1800 |      |
| 60 H 749 | 73-RF  | RF   | 500-1800 | 1.88 |
| 60 H 752 | 73-OSC | Osc. | *100-550 |      |

### ANTENNA AND RF COILS

**M** Untuned. Broadly self-resonant from 540 to 1700 kc. No tuning capacitor needed. Can.  $2\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$ ". Shpg. wt., 4 oz.  
60 H 758. Type 472-U. Ant. NET...1.62  
60 H 759. Type 472-U. RF. NET...1.91

### HIGH "Q" BROADCAST RF COILS

**N** High-efficiency, unshielded, iron-core coils. Adjustable core. Range indicated obtained using 365 mmf variable capacitor. Mount in  $\frac{1}{4}$ " hole. \*Padder values shown for 455 kc IF. Size:  $\frac{3}{4} \times \frac{3}{4} \times 2$ ". Shpg. wt., 4 oz.

| No.      | Type      | Use         | KC Range | E.A. |
|----------|-----------|-------------|----------|------|
| 60 H 862 | A-549S-A  | Ant.        | 550-1700 |      |
| 60 H 863 | A-549S-RF | RF          | 550-1700 | 1.47 |
| 60 H 864 | A-549S-C  | Std. Osc.   | *400 mmf |      |
| 60 H 865 | A-549S-U  | Tapped Osc. | *400 mmf |      |

### MINIATURE ADJUSTABLE RF COILS

**P** Variable-inductance RF coils. Use with 250-450 mmf variable capacitors. 250 to 450 ohm capacity. Type 70-OSC coil has tapped secondary. 70-series installed self-supported. 71-OSC has 2-tap primary. Both track 100 to 550 kc IF. Max. size:  $\frac{3}{4} \times 1\frac{1}{2} \times \frac{1}{2}$ " high. Av. shpg. wt., 4 oz.

| No.      | Type   | Use  | KC Range | NET  |
|----------|--------|------|----------|------|
| 60 H 866 | 70-A   | Ant. | 540-1600 | 1.03 |
| 60 H 867 | 70-RF  | RF   | 540-1600 | 1.03 |
| 60 H 868 | 70-OSC | Osc. | 540-1600 | 0.93 |
| 60 H 869 | 71-OSC | Osc. | 540-1600 | 1.47 |

### TRANSISTOR OSCILLATOR COILS

**R** Type 2020. Use in one transistor osc. circuit. For 365 mmf capacitor, 455 KC coil. Size:  $\frac{3}{4} \times 1\frac{1}{2}$ ". Shpg. wt., 3 oz.  
60 H 895. NET.....1.1

Type 2022. Similar to above, except for with variable capacitor 78-100 mmf max. Size:  $\frac{3}{4} \times 1\frac{1}{2}$ ". Shpg. wt., 3 oz.  
60 H 974. NET.....1.1

### SUBMINIATURE TRANSISTOR OSC. COILS

**S** Type 2021. Shielded. For use in conventional circuits using one transistor for oscillator mixer. Use with 100 mmf variable capacitor. Size:  $\frac{3}{4} \times \frac{1}{2} \times \frac{1}{2}$ ". Shpg. wt., 2 oz.  
60 H 975. NET.....2.2

### ADJUSTABLE CERAMIC RF COILS

**T W X** Adjustable coils for the most exacting requirements. Wound on sintered, impregnated ceramic forms. Tuned by powdered iron core. Fig. T is single-layer wound, Fig. W is twin-pi wound, Fig. X is single-pi wound. Standard. High "Q" units with a wide range of inductances. Require  $\frac{1}{4}$ " mtg. hole. Size:  $\frac{3}{4} \times 1\frac{1}{2} \times \frac{1}{2}$ ". Shpg. wt., 3 oz.

| No.      | Type | Fig.  | Microhenries |
|----------|------|-------|--------------|
| 60 H 982 | 4400 | ..... | Form only    |
| 60 H 983 | 4403 | T     | 0.9-1.6      |
| 60 H 984 | 4404 | T     | 1.5-3.2      |
| 60 H 985 | 4405 | T     | 3.1-6.8      |
| 60 H 986 | 4406 | T     | 6.7-15       |
| 60 H 987 | 4407 | X     | 14.8-31      |
| 60 H 988 | 4408 | X     | 30-69        |
| 60 H 989 | 4409 | X     | 68-130       |
| 60 H 990 | 4410 | X     | 126-250      |
| 60 H 991 | 4411 | X     | 245-475      |
| 60 H 992 | 4412 | X     | 450-800      |
| 60 H 993 | 4413 | W     | 175-400      |
| 60 H 994 | 4414 | W     | 1300-2100    |

Miniature. For limited space.  $\frac{1}{4} \times \frac{1}{2}$ " mtg. hole. Form size:  $\frac{1}{4} \times \frac{1}{2}$ ". Av. shpg. wt., 3 oz.

| No.      | Type | Fig.  | Form only |
|----------|------|-------|-----------|
| 60 H 870 | 4500 | ..... | Form only |
| 60 H 871 | 4502 | T     | 1.0-1.6   |
| 60 H 872 | 4503 | T     | 1.6-2.8   |
| 60 H 873 | 4504 | T     | 2.8-5     |
| 60 H 874 | 4505 | T     | 5-9       |
| 60 H 875 | 4506 | T     | 9-16      |
| 60 H 876 | 4507 | W     | 16-24     |
| 60 H 877 | 4508 | W     | 24-35     |
| 60 H 878 | 4509 | W     | 35-60     |
| 60 H 879 | 4511 | X     | 60-120    |
| 60 H 880 | 4512 | X     | 110-200   |
| 60 H 881 | 4513 | X     | 190-330   |
| 60 H 882 | 4514 | X     | 320-500   |

Subminiature. For ultra-compact equipment.  $\frac{1}{4}$ " mtg. hole. Form:  $\frac{1}{4} \times \frac{1}{2}$ ". Shpg. wt., 3 oz.

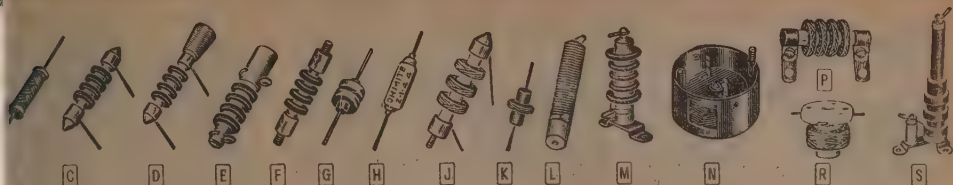
| No.      | Type | Fig.  | Form only |
|----------|------|-------|-----------|
| 60 H 995 | 4300 | ..... | Form only |
| 60 H 996 | 4301 | T     | 0.17-0.27 |
| 60 H 997 | 4302 | T     | 0.27-0.41 |
| 60 H 998 | 4303 | T     | 0.40-0.65 |
| 60 H 999 | 4304 | T     | 0.64-0.95 |
| 60 H 927 | 4305 | T     | 0.94-1.55 |
| 60 H 928 | 4306 | T     | 1.5-2.57  |
| 60 H 929 | 4307 | T     | 2.5-4.40  |
| 60 H 930 | 4308 | T     | 4.3-7.15  |
| 60 H 931 | 4309 | T     | 7.1-12.4  |
| 60 H 932 | 4310 | X     | 12.4-20.3 |
| 60 H 933 | 4311 | X     | 20.1-32.8 |
| 60 H 934 | 4312 | X     | 32.5-51.5 |
| 60 H 941 | 4313 | X     | 51-102    |
| 60 H 942 | 4314 | X     | 101-180   |
| 60 H 943 | 4315 | X     | 178-300   |

### TYPE 20 ECONOMY TRF COILS

**Y** Unshielded TRF coils for 540 to 1750 kc. For use with 365 mmf variable capacitor. With L mtg. bracket. Low impedance primary on adjustable sleeve over secondary.  $1\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ " high. Shpg. wt., 3 oz.  
60 H 753. 20-A. Antenna Coil. NET.....1.7  
60 H 590. 20-RF. RF Coil. NET.....1.7



# RF Chokes—Coil Forms—Coil Winder



## FAMOUS-NAME RF CHOKES FOR EVERY PURPOSE

below may be used in transmitters, receivers, test equipment, 1160 is recommended for transmitters with plate supply of up to 1000 volts modulated or 4,000 volts unmodulated. It may be used on from 80 through 10 meters. R-33 series chokes are two-section; i.e. chokes are 3 and 4-section. 71 H 149 choke is hermetically glass. National suffix "U" following type number indicates re-

movable stand-off insulator at one end. National chokes wound on insulating forms. \*Indicates iron-core type. Have round aluminum shields. †Shielded. The four highest frequency Ohmite chokes are wound on low power factor plastic cores; the other three units are wound on statite tubes. §Mounted on standoff insulator for vertical mounting. ‡Millihenries. \*\*Microhenries. Av. shpg. wt., 2 oz.

| Co. | Mfr.        | Type      | Fig. | ±Mh   | Ma   | Ohms | NET  |
|-----|-------------|-----------|------|-------|------|------|------|
| 30  | National    | R-100     | C    | 2.5   | 115  | 44   | .54  |
| 30  | National    | R-100     | C    | 5     | 70   | 90   | .54  |
| 32  | National    | R-100     | C    | 10    | 125  | 60   | .54  |
| 32  | National    | R-100     | C    | 2.5   | 115  | 44   | .66  |
| 36  | National    | R-100U    | D    | 5     | 70   | 90   | .66  |
| 37  | National    | R-100U    | D    | 10    | 60   | 130  | .66  |
| 51  | National    | R-300U    | D    | 1     | 400  | 11   | .69  |
| 51  | National    | R-100S    | E    | 2.5   | 115  | 44   | .92  |
| 78  | National    | R-100S    | E    | 5     | 70   | 90   | .92  |
| 79  | National    | R-100S    | E    | 10    | 60   | 130  | .92  |
| 82  | National    | R-300S    | E    | 1     | 400  | 11   | .95  |
| 84  | National    | R-300ST   | F    | 2.5   | 37   | 17   | .63  |
| 84  | National    | R-33      | G    | 50**  | 225  | 3.5  | .36  |
| 85  | National    | R-33      | G    | 100** | 200  | 5.0  | .36  |
| 89  | National    | R-33      | G    | 750** | 125  | 16   | .36  |
| 91  | National    | R-50      | A    | 2.5   | 125  | 38.0 | .42  |
| 91  | National    | R-50      | A    | 5     | 150  | 15.0 | .42  |
| 91  | National    | R-50      | A    | 1     | 135  | 20.0 | .42  |
| 93  | National    | R-60      | A    | 2**   | 1500 | .06  | .29  |
| 96  | National    | R-154U    | M    | 1     | 600  | 6.0  | 2.01 |
| 96  | National    | R-175A    | S    | 145   | 800  | 5.0  | 3.56 |
| 97  | J.W. Miller | 7521      | N    | 1     | 125  | 17   | .85  |
| 97  | J.W. Miller | 4532      | J    | 1     | 50   | 21   | .70  |
| 97  | J.W. Miller | 7531      | N    | 2.5   | 125  | 28   | .91  |
| 97  | J.W. Miller | 7541      | N    | 5     | 125  | 45   | .91  |
| 97  | J.W. Miller | 7551      | N    | 7.5   | 125  | 58   | .94  |
| 97  | J.W. Miller | 7561      | N    | 15    | 125  | 72   | 1.00 |
| 97  | J.W. Miller | 7571      | N    | 25    | 125  | 130  | 1.06 |
| 99  | J.W. Miller | 7581      | N    | 50    | 100  | 190  | 1.18 |
| 99  | J.W. Miller | 859**     | N    | 75    | 100  | 190  | 1.68 |
| 99  | Millen      | 34100     | D    | 2.5   | 250  | 52.5 | .48  |
| 99  | Millen      | 34101     | J    | 2.5   | 250  | 52.5 | .42  |
| 99  | Millen      | 34103     | C    | 2.5   | 250  | 52.5 | .42  |
| 99  | Millen      | 34100     | J    | 100** | 300  | 13.5 | .42  |
| 99  | Millen      | 34300-150 | K    | 250** | 250  | 7.4  | .42  |
| 99  | Millen      | 34300-200 | K    | 350** | 250  | 11   | .42  |

| Stock No. | Mfr.   | Type       | Fig. | ±Mh    | Ma   | Ohms  | NET  |
|-----------|--------|------------|------|--------|------|-------|------|
| 72 H 186  | Millen | 34300-25   | K    | 25**   | 250  | 11    | .42  |
| 72 H 187  | Millen | 34300-50   | K    | 50**   | 250  | 5.2   | .42  |
| 72 H 188  | Millen | 34300-300  | K    | 300**  | 250  | 10.1  | .42  |
| 72 H 189  | Millen | 34300-500  | G    | 500**  | 250  | 22.3  | .42  |
| 72 H 190  | Millen | 34300-1000 | G    | 1000** | 250  | 21.7  | .42  |
| 72 H 192  | Millen | 34225      | R    | 25     | 75   | 159   | .84  |
| 72 H 193  | Millen | 34280      | R    | 80     | 75   | 336   | .96  |
| 72 H 194  | Millen | 1300-100   | B    | 100**  | 50   | 4.0   | .42  |
| 72 H 195  | Millen | 1300-250   | B    | 250**  | 50   | 6.2   | .42  |
| 72 H 196  | Millen | 1300-500   | B    | 500**  | 50   | 14.4  | .42  |
| 72 H 197  | Millen | 1300-1000  | B    | 1000** | 50   | 23.7  | .42  |
| 72 H 198  | Millen | 1300-2500  | B    | 2500** | 50   | 41.3  | .42  |
| 60 H 417  | P & H  | 160-6      | L    | 162**  | 2500 | ..... | 3.85 |
| 60 H 406  | Bud    | CH-926S    | P    | 2.5    | 200  | 25    | .60  |
| 60 H 407  | Bud    | CH-927S    | P    | 5.5    | 200  | 32    | .60  |
| 60 H 408  | Bud    | CH-928S    | P    | 10     | 200  | 49    | .60  |
| 60 H 409  | Bud    | CH-929S    | P    | 2.5    | 200  | 31    | .60  |
| 60 H 410  | Bud    | CH-1222    | R    | 2.5    | 200  | 22    | .60  |
| 60 H 411  | Bud    | CH-1224    | R    | 5      | 200  | 33    | .60  |
| 60 H 412  | Bud    | CH-1225    | R    | 8      | 200  | 40    | .60  |
| 60 H 413  | Bud    | CH-1227    | R    | 16     | 200  | 59    | .60  |
| 60 H 414  | Bud    | CH-1228    | R    | 30     | 190  | 88    | .68  |
| 60 H 415  | Bud    | CH-1229    | R    | 60     | 180  | 130   | .75  |
| 60 H 416  | Bud    | CH-1230    | R    | 80     | 175  | 160   | .93  |

| Stock No. | Mfr.     | Type     | Fig.  | ±uH  | Ma   | Freq., Mc | NET EACH |
|-----------|----------|----------|-------|------|------|-----------|----------|
| 74 M 410  | Ohmite   | Z-460    | H     | 0.2  | 1000 | 320-520   | .42      |
| 74 M 411  | Ohmite   | Z-235    | H     | 0.84 | 1000 | 160-350   | .42      |
| 74 M 412  | Ohmite   | Z-144    | H     | 1.8  | 1000 | 80-200    | .42      |
| 74 M 413  | Ohmite   | Z-50     | H     | 7.0  | 1000 | 35-110    | .45      |
| 74 M 414  | Ohmite   | Z-28     | ..... | 21   | 600  | 20-60     | .56      |
| 74 M 415  | Ohmite   | Z-14     | ..... | 44   | 600  | 7-35      | .67      |
| 74 M 416  | Ohmite   | Z-7      | ..... | 84   | 1000 | 3-20      | 1.34     |
| 71 H 296  | National | B20407-1 | ..... | 0.32 | 2000 | 15        | .30      |
| 71 H 297  | National | B20407-2 | ..... | .65  | 2000 | 15        | .38      |
| 71 H 298  | National | B20407-3 | ..... | 1.0  | 2000 | 45        | .48      |
| 71 H 299  | National | B20407-4 | ..... | 1.3  | 2000 | 60        | .59      |

## MORRIS "COILMASTER"

is hand-operated coil winder will: self-supporting, universal and amb coils; also solenoids, single-ils, etc. It's a big time saver and our work a professional appearance, or counts turns. Easily adjustable spacing and various diameter coil. Accepts No. 22 to No. 40 wire; 3 ad 4 gears permit winding virtually all coils. Less wire, forms. Base 5". Shpg. wt. 4 lbs. 6.95 11. NET.



## "MINI-SPRING" TUBE HOLD-DOWNS

clips securely in place. Prevent breakage and assure stability. Valuable where tubes are mounted upside r in a horizontal position; also excellent for equip-ubject to vibration and shock. For 7 or 9 pin minia-ubes. Mount with nut and bolt, or may be installed er. Av. shpg. wt., 3 oz. 3 per package.

| No. | Height | For Tubes                         | Per Pkg. |
|-----|--------|-----------------------------------|----------|
| 121 | 2 7/8" | 6A05, 6X4, 3B55, 3B6A, 50B5, etc. | 26c      |
| 122 | 1 1/2" | RS, 6A5, 6A7E, 6B6E, 6C4, etc.    |          |
| 123 | 1 1/8" | 6A7J, 6A85, 6A15, 6A8S, 6N4, etc. |          |
| 124 | 1 1/4" | 12A77, 12A07, etc.                |          |



## POLYSTYRENE COIL FORMS

as forms for winding RF coils of all types. Excellent for aerial receivers; plate, grid or tank coils in VFO's or low-transmitters; grid-dip meter coils; VHF equipment, etc. 5, and 6 prong standard forms fit standard tube sockets; 5 prong miniature forms fit Amphenol 78-S5S and 78-S6S ie sockets (see Fig. H, page 217). Av. wt., 2 oz.

| No. | Type  | Description  | Size            | NET |
|-----|-------|--------------|-----------------|-----|
| 723 | 23-5H | 5-Prong Min. | 1 1/4" x 1 1/4" | 21c |
| 711 | 24-6H | 6-Prong Min. | 1 1/4" x 1 1/4" | 28c |
| 713 | 24-1P | 4-Prong Std. | 2 1/4" x 1 1/4" | 30c |
| 714 | 24-5P | 5-Prong Std. | 2 1/4" x 1 1/4" | 25c |
| 724 | 24-6P | 6-Prong Std. | 2 1/4" x 1 1/4" | 36c |

## STANCOR RF CHOKES

Wound on low-loss forms and impregnated with moisture and fungus-resistant varnish. Operate at frequencies up into the UHF region. \*Indicates iron-core form (Fig. T), others are phenolic (Fig. W). †Indicates 3-section windings, others are single layer. Rated 300 ma, except 3-section units which are rated 125 ma. Tol., ±5%. 1/2 leads. Sizes: phenolic forms, 3/4" dia. by 3/4" long; iron core, 7/8" dia. by 7/8" long. ‡Millihenries. \*\*Microhenries. 3 oz.



| Stock No. | Type      | ±Mh    | Q   | Ohms | Mc   | NET |
|-----------|-----------|--------|-----|------|------|-----|
| 60 H 419  | RTC-8511  | 0.1**  | 70  | .01  | 490  | 48c |
| 60 H 420  | RTC-8512  | 0.22** | 95  | .017 | 490  | 48c |
| 60 H 426  | RTC-8513  | 0.47** | 104 | .022 | 312  | 48c |
| 60 H 427  | RTC-8514  | 0.75** | 115 | .033 | 267  | 59c |
| 60 H 428  | RTC-8515  | 1.00** | 58  | .05  | 233  | 59c |
| 60 H 429  | RTC-8516  | 1.50** | 62  | .08  | 195  | 59c |
| 60 H 435  | RTC-8517  | 2.40** | 63  | .16  | 154  | 59c |
| 60 H 436  | RTC-8518  | 3.90** | 58  | .50  | 118  | 59c |
| 60 H 437  | RTC-8519  | 5.50** | 70  | .69  | 103  | 59c |
| 60 H 438  | RTC-8520  | 6.20** | 67  | .75  | 96   | 59c |
| 60 H 439  | RTC-8521  | 8.20** | 67  | 1.12 | 85   | 59c |
| 60 H 443  | RTC-8522  | 10.0** | 67  | 1.50 | 76   | 59c |
| 60 H 444  | RTC-8523  | 10.0** | 70  | .06  | 430  | 59c |
| 60 H 445  | RTC-8524  | 15.0** | 58  | .12  | 382  | 59c |
| 60 H 453  | RTC-8525  | 24.0** | 50  | .28  | 321  | 59c |
| 60 H 454  | RTC-8667* | 39.0** | 93  | .65  | 25.2 | 59c |
| 60 H 457  | RTC-8668* | 55.0** | 89  | .92  | 21.0 | 59c |
| 60 H 458  | RTC-8526* | 62.0** | 87  | 1.0  | 20.6 | 59c |
| 60 H 459  | RTC-9171* | 82.0** | 80  | 1.6  | 18.6 | 59c |
| 60 H 466  | RTC-9172* | 100**  | 80  | 2.0  | 16.7 | 59c |
| 60 H 467  | RTC-8527  | 0.10   | 64  | 4.1  | 14.4 | 59c |
| 60 H 468  | RTC-8528  | 0.15   | 69  | 5.0  | 12.2 | 59c |
| 60 H 469  | RTC-8529  | 0.24   | 74  | 6.6  | 9.3  | 59c |
| 60 H 475  | RTC-9172  | 0.39   | 75  | 8.7  | 7.2  | 59c |
| 60 H 476  | RTC-9173  | 0.55   | 75  | 10.0 | 6.2  | 59c |
| 60 H 477  | RTC-8540  | 0.62   | 72  | 11.0 | 6.0  | 59c |
| 60 H 478  | RTC-8531† | 0.75   | 76  | 13.0 | 4.8  | 59c |
| 60 H 479  | RTC-8532† | 1.00   | 71  | 15.0 | 4.8  | 59c |

# Coils and Coil Forms, Insulators, RF Transformers



For broadband RF amplifiers, TV traps, HF circuits, etc. HF paper base phenolic bodies, extra termic. Vertical mounts, except 2270 and 2271, horizontal. Unassembled forms. All parts non-ferrous and electro-plated. Av. shpg. wt., 4 lbs.

## COILS

| Stock No. | Type    | Mc    | Lx Dia.                           | NET  |
|-----------|---------|-------|-----------------------------------|------|
| 72 H 283  | LSM     | 1     | $1\frac{1}{2} \times \frac{1}{2}$ | .07  |
| 72 H 419  | LSM     | 3     | $1\frac{1}{2} \times \frac{1}{2}$ | .05  |
| 72 H 284  | LSM     | 5     | $1\frac{1}{2} \times \frac{1}{2}$ | .02  |
| 72 H 293  | LSM     | 10    | $1\frac{1}{2} \times \frac{1}{2}$ | .98  |
| 72 H 286  | LSM     | 30    | $1\frac{1}{2} \times \frac{1}{2}$ | .95  |
| 72 H 287  | LSM     | 60    | $1\frac{1}{2} \times \frac{1}{2}$ | .89  |
| 72 H 295  | LS3     | 1     | $1\frac{1}{2} \times \frac{1}{2}$ | 1.07 |
| 72 H 420  | LS3     | 3     | $1\frac{1}{2} \times \frac{1}{2}$ | 1.05 |
| 72 H 296  | LS3     | 5     | $1\frac{1}{2} \times \frac{1}{2}$ | 1.02 |
| 72 H 297  | LS3     | 10    | $1\frac{1}{2} \times \frac{1}{2}$ | .95  |
| 72 H 298  | LS3     | 30    | $1\frac{1}{2} \times \frac{1}{2}$ | .89  |
| 72 H 299  | LS3     | 60    | $1\frac{1}{2} \times \frac{1}{2}$ | .81  |
| 72 H 421  | 2060-1† | 20-50 | $1\frac{1}{2} \times \frac{1}{2}$ | 1.01 |
| 72 H 422  | 2060-2† | 1-20  | $1\frac{1}{2} \times \frac{1}{2}$ | 1.01 |
| 72 H 423  | 2060-3† | 20-50 | $1\frac{1}{2} \times \frac{1}{2}$ | 1.10 |
| 72 H 424  | 2060-4† | 1-20  | $1\frac{1}{2} \times \frac{1}{2}$ | 1.10 |

## COILS

| Stock No. | Type     | Mc      | Lx Dia.                           | NET  |
|-----------|----------|---------|-----------------------------------|------|
| 72 H 438  | 2060-5†  | 1-20    | $1\frac{1}{2} \times \frac{1}{2}$ | 1.17 |
| 72 H 439  | 2060-6†  | 0.2-1.5 | $1\frac{1}{2} \times \frac{1}{2}$ | 1.26 |
| 72 H 440  | 2060-7†  | 0.2-1.5 | $1\frac{1}{2} \times \frac{1}{2}$ | 1.35 |
| 72 H 441  | 2060-8†  | 0.2-1.5 | $1\frac{1}{2} \times \frac{1}{2}$ | 1.44 |
| 72 H 442  | 2060-9†  | 0.2-1.5 | $1\frac{1}{2} \times \frac{1}{2}$ | 1.51 |
| 72 H 443  | 2060-10† | 0.2-1.5 | $1\frac{1}{2} \times \frac{1}{2}$ | 1.56 |

## COIL FORMS FOR 1-20 MC

| Stock No. | Type         | Lx Dia.                           |
|-----------|--------------|-----------------------------------|
| 72 H 462  | SPC-12A-4L†§ | $1\frac{1}{2} \times \frac{1}{2}$ |
| 72 H 463  | 2270-2†§     | $1\frac{1}{2} \times \frac{1}{2}$ |
| 72 H 464  | 2271-1†§     | $1\frac{1}{2} \times \frac{1}{2}$ |
| 72 H 282  | 1-SM/E       | $2\frac{1}{2} \times \frac{1}{2}$ |
| 72 H 294  | LS3/B        | $1\frac{1}{2} \times \frac{1}{2}$ |
| 72 H 288  | 1-S4/K       | $2\frac{1}{2} \times \frac{1}{2}$ |
| 72 H 289  | PLS5/B†      | $1\frac{1}{2} \times \frac{1}{2}$ |
| 72 H 290  | PL56/E†      | $2\frac{1}{2} \times \frac{1}{2}$ |

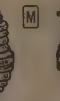
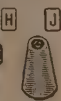
## COIL FORMS FOR 1-20 MC

| Stock No. | Type         | Lx Dia.                           | NET |
|-----------|--------------|-----------------------------------|-----|
| 72 H 446  | PLS5-2C4L/B† | $1\frac{1}{2} \times \frac{1}{2}$ | .81 |
| 72 H 448  | PLS6-2C4L/E† | $2\frac{1}{2} \times \frac{1}{2}$ | .72 |
| 72 H 457  | PLST-2C4L/H† | $1\frac{1}{2} \times \frac{1}{2}$ | .88 |
| 72 H 459  | SPC-1A-4L†   | $3\frac{1}{2} \times \frac{1}{2}$ | .24 |
| 72 H 460  | SPC-2B-4L†   | $3\frac{1}{2} \times \frac{1}{2}$ | .24 |
| 72 H 461  | SPC-11A-4L†§ | $5\frac{1}{2} \times \frac{1}{2}$ | .27 |

## COIL FORMS FOR 20-50 MC

| Stock No. | Type         | Lx Dia.                           |
|-----------|--------------|-----------------------------------|
| 72 H 444  | PLST-2C4L/N† | $1\frac{1}{2} \times \frac{1}{2}$ |
| 72 H 445  | PLST-2C4L/P† | $1\frac{1}{2} \times \frac{1}{2}$ |
| 72 H 447  | PLS5-2C4L/N† | $1\frac{1}{2} \times \frac{1}{2}$ |
| 72 H 449  | PLS6-2C4L/O† | $2\frac{1}{2} \times \frac{1}{2}$ |
| 72 H 458  | PLST-2C4L/Q† | $1\frac{1}{2} \times \frac{1}{2}$ |

## E. F. JOHNSON INSULATORS



**Standard-Offset Insulators.** High glaze porcelain, except 2270 and 2271, horizontal. Unassembled forms. All parts non-ferrous and electro-plated. Av. shpg. wt., 4 lbs.

| Stock No. | Mfr's Type | Fig. | Body H.        | Hard-ware          | NET |
|-----------|------------|------|----------------|--------------------|-----|
| 73 H 120  | 135-208    | A    | $1\frac{1}{2}$ | 10-32              | 25¢ |
| 73 H 121  | 135-20-2   | A    | $1\frac{1}{2}$ | 740†               | 30¢ |
| 73 H 122  | 135-22-8   | A    | $1\frac{1}{2}$ | 8-32               | 19¢ |
| 73 H 123  | 135-22-2   | B    | $1\frac{1}{2}$ | 740†               | 23¢ |
| 73 H 139  | 135-24-8   | A    | $1\frac{1}{2}$ | 6-32               | 15¢ |
| 73 H 125  | 135-60     | *    | $4\frac{1}{2}$ | $1\frac{1}{2}$ -20 | 98¢ |
| 73 H 126  | 135-62     | C    | $2\frac{1}{2}$ | $1\frac{1}{2}$ -20 | 98¢ |
| 73 H 127  | 135-63     | B    | $1\frac{1}{2}$ | 10-32              | 30¢ |
| 73 H 128  | 135-65-2   | C    | $1\frac{1}{2}$ | 740†               | 39¢ |
| 73 H 129  | 135-66     | D    | $2\frac{1}{2}$ | $1\frac{1}{2}$ -20 | 87¢ |
| 73 H 130  | 135-66-2   | D    | $2\frac{1}{2}$ | 760†               | 98¢ |
| 73 H 131  | 135-67     | D    | $4\frac{1}{2}$ | $1\frac{1}{2}$ -20 | 98¢ |
| 73 H 132  | 135-68     | *    | $2\frac{1}{2}$ | 10-32              | 46¢ |
| 73 H 137  | 135-68-2   | *    | $2\frac{1}{2}$ | 740†               | 54¢ |

**Lead in Bushings.** Ideal high-voltage terminals. 135-50, 135-51, 135-52, 135-55 are steatite, with nickel-plated brass rod and nuts; 135-53, 135-54 are porcelain, less hardware. Av., 8 oz.

| Stock No. | Mfr's Type | Fig. | H.             | Top Dia.       | Panel Hole     | NET |
|-----------|------------|------|----------------|----------------|----------------|-----|
| 73 H 160  | 135-50     | H    | $1\frac{1}{2}$ | $1\frac{1}{2}$ | $1\frac{1}{2}$ | 33¢ |
| 73 H 161  | 135-51     | H    | $1\frac{1}{2}$ | $1\frac{1}{2}$ | $1\frac{1}{2}$ | 54¢ |
| 73 H 162  | 135-52     | H    | $1\frac{1}{2}$ | $1\frac{1}{2}$ | $1\frac{1}{2}$ | 78¢ |
| 73 H 163  | 135-53     | F    | $1\frac{1}{2}$ | $2\frac{1}{2}$ | $1\frac{1}{2}$ | 29¢ |
| 73 H 164  | 135-54     | E    | $2\frac{1}{2}$ | $3\frac{1}{2}$ | $2\frac{1}{2}$ | 31¢ |
| 73 H 165  | 135-55     | G    | $2\frac{1}{2}$ | $3\frac{1}{2}$ | $2\frac{1}{2}$ | 31¢ |

**Ultra-Steatite Cone Insulators.** Non-ribbed high-grade insulators. Ideal for mounting coils, capacitors, etc. Threads tapped directly into steatite. Width shown is maximum (base). With hardware. Shpg. wt., 5 oz.

| Stock No. | Type    | Height         | Width          | NET  |
|-----------|---------|----------------|----------------|------|
| 73 H 150  | 135-500 | $1\frac{1}{2}$ | $1\frac{1}{2}$ | .23  |
| 73 H 151  | 135-501 | $1\frac{1}{2}$ | $1\frac{1}{2}$ | .31  |
| 73 H 152  | 135-502 | $1\frac{1}{2}$ | $1\frac{1}{2}$ | .51  |
| 73 H 153  | 135-503 | $1\frac{1}{2}$ | $1\frac{1}{2}$ | .71  |
| 73 H 154  | 135-504 | $3\frac{1}{2}$ | $1\frac{1}{2}$ | 1.20 |

**Thru-Panel Type.** Glazed porcelain. 108-740 jack (see Jacks). 12 oz.

| Stock No. | Mfr's Type | Fig. | Top Hole       | Hard-ware      | NET   |
|-----------|------------|------|----------------|----------------|-------|
| 73 H 225  | 135-401    | K    | $1\frac{1}{2}$ | $1\frac{1}{2}$ | 10-32 |
| 73 H 226  | 135-40-2   | L    | $1\frac{1}{2}$ | $1\frac{1}{2}$ | 10-32 |
| 73 H 227  | 135-42†    | K    | $1\frac{1}{2}$ | $1\frac{1}{2}$ | 10-32 |
| 73 H 228  | 135-42-2   | L    | $1\frac{1}{2}$ | $1\frac{1}{2}$ | 10-32 |
| 73 H 229  | 135-44†    | K    | $1\frac{1}{2}$ | $1\frac{1}{2}$ | 6-32  |
| 73 H 230  | 135-45     | M    | $1\frac{1}{2}$ | $1\frac{1}{2}$ | 10-32 |
| 73 H 231  | 135-46-2   | N    | $1\frac{1}{2}$ | $1\frac{1}{2}$ | 10-32 |
| 73 H 233  | 135-47     | K    | $1\frac{1}{2}$ | $1\frac{1}{2}$ | 10-32 |
| 73 H 235  | 135-48     | M    | $1\frac{1}{2}$ | $1\frac{1}{2}$ | 10-32 |
| 73 H 224  | 135-48-2   | N    | $1\frac{1}{2}$ | $1\frac{1}{2}$ | 10-32 |

## FEEDER SPREADERS

Moisture-proof porcelain for low-loss transmission lines.  $1\frac{1}{2} \times \frac{1}{2}$ . Av. shpg. wt., 3 oz.

| Stock No. | Type    | Length | NET |
|-----------|---------|--------|-----|
| 73 H 111  | 136-122 | 2"     | .1  |
| 73 H 112  | 136-124 | 2"     | .1  |
| 73 H 113  | 136-126 | 6"     | .3  |

## STANCOR RF COILS AND IF TRANSFORMERS



**Miniature Transistor IF Transformers.** (Not illus.) Tuned, tapped primary; untuned secondary.  $1\frac{1}{2}$ " sq. x  $3\frac{1}{4}$ " high. Shpg. wt., 2 oz.

| Stock No. | Type     | Imp. Ohms | Use    | NET  |
|-----------|----------|-----------|--------|------|
| 60 H 481  | RTC-9083 | 10K-.6K   | Input  | 3.23 |
| 60 H 482  | RTC-9084 | 10K-1K    | Input  | 3.23 |
| 60 H 483  | RTC-9085 | 25K-.6K   | Input  | 2.06 |
| 60 H 496  | RTC-9086 | 25K-1K    | Output | 2.06 |
| 60 H 497  | RTC-9087 | 10K-1K    | Input  | 2.35 |

**Miniature Adjustable RF Coils.** Powdered-iron core. Form,  $1\frac{1}{4}$ " dia. x  $7\frac{1}{4}$ ". For  $1\frac{1}{2}$ " mtg. hole. \*With hardware and core, 3 oz.

| Stock No. | Type     | µh Inductance | NET  |
|-----------|----------|---------------|------|
| 60 H 498  | RTC-9137 | *Form only    | 1.09 |
| 60 H 499  | RTC-9138 | 0.4 to 0.8    | .50  |
| 60 H 503  | RTC-9139 | 1 to 1.6      | .50  |
| 60 H 504  | RTC-9140 | 1.6 to 2.8    | .56  |
| 60 H 508  | RTC-9141 | 2.8 to 5      | .59  |
| 60 H 509  | RTC-9142 | 5 to 9        | 1.65 |
| 60 H 513  | RTC-9143 | 9 to 16       | .73  |
| 60 H 514  | RTC-9144 | 16 to 24      | .79  |
| 60 H 517  | RTC-9145 | 24 to 35      | 1.82 |
| 60 H 518  | RTC-9146 | 35 to 60      | 1.85 |
| 60 H 519  | RTC-9147 | 60 to 120     | 1.88 |
| 60 H 522  | RTC-9148 | 110 to 200    | 1.91 |
| 60 H 523  | RTC-9149 | 190 to 330    | 1.94 |
| 60 H 524  | RTC-9150 | 320 to 500    | 2.00 |
| 60 H 525  | RTC-9151 | 480 to 800    | 2.06 |

**RTC-8648 Adjustable Oscillator Coil.** (Not illus.) 500-1800 kc. for 100-550 kc IF's. Primary has 2 taps.  $1\frac{1}{2} \times \frac{1}{2}$ " x 3 oz. **NET** 1.47

**Miniature RF Coils.** Shielded, iron-core. For compact receivers. For 365-mmf variables. \*Series pad required for 455 kc; fpad required for 262 kc.  $3\frac{1}{2} \times \frac{1}{2} \times 2\frac{1}{2}$ ". 3 oz.

| Stock No. | Type     | Ant. | Freq. Range | NET  |
|-----------|----------|------|-------------|------|
| 60 H 527  | RTC-8756 | Ant. | 140-425 kc  | 1.65 |
| 60 H 528  | RTC-8757 | RF   | 140-425 kc  | 1.65 |
| 60 H 529  | RTC-8758 | Osc. | *120 mmf    | 1.65 |
| 60 H 532  | RTC-8631 | Ant. | 540-1700 kc | 1.03 |
| 60 H 533  | RTC-8759 | RF   | 140-425 kc  | 1.47 |
| 60 H 534  | RTC-8760 | Ant. | *400 mmf    | 1.47 |
| 60 H 537  | RTC-8761 | Osc. | *1600 mmf   | 1.47 |
| 60 H 538  | RTC-8762 | Ant. | 2.1-6.3 mc  | 1.47 |
| 60 H 539  | RTC-8763 | RF   | 2.1-6.3 mc  | 1.47 |
| 60 H 544  | RTC-8764 | Osc. | *1600 mmf   | 1.47 |

**Miniature Printed Circuit IF Transformers.** \*With diode filter capacitor; ffor batt.  $1\frac{1}{2} \times \frac{1}{2} \times 2\frac{1}{2}$ ". 3 oz.

| Stock No. | Type     | Freq.   | Application    | NET  |
|-----------|----------|---------|----------------|------|
| 60 H 548  | RTC-8644 | 262 kc  | Input          | 1.91 |
| 60 H 549  | RTC-8685 | 262 kc  | Output         | 1.76 |
| 60 H 552  | RTC-8645 | 262 kc  | Output*        | 1.91 |
| 60 H 553  | RTC-8641 | 455 kc  | Input          | 1.62 |
| 60 H 554  | RTC-8642 | 455 kc  | Output         | 2.59 |
| 60 H 557  | RTC-8643 | 455 kc  | Output*        | 1.65 |
| 60 H 558  | RTC-8681 | 455 kc  | Input          | 1.76 |
| 60 H 559  | RTC-8682 | 455 kc  | Output         | 1.76 |
| 60 H 562  | RTC-8683 | 455 kc  | Input          | 1.76 |
| 60 H 563  | RTC-8684 | 455 kc  | Output         | 1.76 |
| 60 H 564  | RTC-8646 | 455 kc  | Input or IS    | 1.91 |
| 60 H 577  | RTC-8618 | 4.5 mc  | Discriminator  | 2.20 |
| 60 H 568  | RTC-8621 | 4.5 mc  | Discriminator  | 2.47 |
| 60 H 569  | RTC-8622 | 4.5 mc  | Ratio Detector | 2.94 |
| 60 H 572  | RTC-9243 | 4.5 mc  | Ratio Detector | 2.94 |
| 60 H 573  | RTC-9244 | 4.5 mc  | Ratio Detector | 2.94 |
| 60 H 574  | RTC-9046 | 10.7 mc | Input or IS    | 1.91 |
| 60 H 577  | RTC-9050 | 10.7 mc | Discriminator  | 2.47 |
| 60 H 578  | RTC-9053 | 10.7 mc | Ratio Detector | 2.20 |
| 60 H 581  | RTC-9245 | 44 mc   | TV Converter   | 2.06 |
| 60 H 582  | RTC-9246 | 44 mc   | TV 1st IF      | 2.06 |
| 60 H 585  | RTC-8560 | 42.5 mc | 2nd IF         | 2.06 |
| 60 H 587  | RTC-8562 | 45.5 mc | 3rd IF         | 2.06 |
| 60 H 588  | RTC-8564 | 44 mc   | 4th IF         | 2.06 |

**4.5-Mc Miniature IF Transformer.** Shell core; built-in silver-mica capacitor. With mtg. clip.  $1\frac{1}{2} \times \frac{1}{2} \times 2\frac{1}{2}$ ". Shpg. wt., 3 oz.

| Stock No. | Type     | Description         | NET  |
|-----------|----------|---------------------|------|
| 60 H 599  | RTC-8545 | Input or Interstage | 2.20 |
| 60 H 601  | RTC-8618 | Discriminator       | 2.20 |
| 60 H 662  | RTC-8620 | Ratio Detector      | 2.20 |
| 60 H 663  | RTC-8621 | Ratio Detector      | 2.20 |
| 60 H 664  | RTC-8624 | Ratio Detector      | 2.20 |
| 60 H 667  | RTC-9243 | Ratio Detector      | 2.20 |

**Miniature IF Transformers.** \*With filter; fhatt. radios; \*A.C.-D.C. sets; IS, teststage. Shell core; mtg. clip.  $1\frac{1}{2} \times \frac{1}{2} \times 2\frac{1}{2}$ ". 3 oz.

| Stock No. | Type    | Freq.    | Application    | NET |
|-----------|---------|----------|----------------|-----|
| 60 H 668  | RT-8638 | 262 kc   | Input          | 1   |
| 60 H 669  | RT-8638 | 262 kc   | Input          | 1   |
| 60 H 672  | RT-8638 | 262 kc   | Output*        | 1   |
| 60 H 673  | RT-8632 | 455 kc   | Input          | 1   |
| 60 H 674  | RT-8633 | 455 kc   | Output         | 1   |
| 60 H 677  | RT-8634 | 455 kc   | Output*        | 1   |
| 60 H 678  | RT-8635 | 455 kc   | Input†         | 1   |
| 60 H 679  | RT-8635 | 455 kc   | Input†         | 1   |
| 60 H 682  | RT-8636 | 455 kc   | Input†         | 1   |
| 60 H 683  | RT-8637 | 455 kc   | Output†        | 1   |
| 60 H 684  | RT-8676 | 455 kc   | IF             | 2   |
| 60 H 685  | RT-8677 | 455 kc   | Discriminator  | 2   |
| 60 H 686  | RT-8677 | 455 kc   | Discriminator  | 2   |
| 60 H 687  | RT-8686 | 1500 kc  | Input or IS    | 1   |
| 60 H 688  | RT-8687 | 1500 kc  | Output         | 1   |
| 60 H 689  | RT-8599 | 10.7 mc  | Input or IS    | 1   |
| 60 H 692  | RT-8665 | 10.7 mc  | Discriminator  | 1   |
| 60 H 693  | RT-8665 | 10.7 mc  | Discriminator  | 1   |
| 60 H 694  | RT-8600 | 10.7 mc  | Ratio Detector | 1   |
| 60 H 696  | RT-9054 | 10.7 mc  | Ratio Detector | 1   |
| 60 H 697  | RT-8545 | 4.5 mc   | Input or IS    | 2   |
| 60 H 698  | RT-8618 | 4.5 mc   | Discriminator  | 2   |
| 60 H 699  | RT-8620 | 4.5 mc   | Ratio Detector | 2   |
| 60 H 700  | RT-8620 | 4.5 mc   | Ratio Detector | 2   |
| 60 H 903  | RT-9250 | 21.25 mc | Discriminator  | 1   |
| 60 H 904  | RT-9251 | 21.25 mc | Ratio Detector | 1   |
| 60 H 908  | RT-8557 | 44 mc    | TV Converter   | 2   |
| 60 H 909  | RT-8558 | 44 mc    | TV First IF    | 1   |
| 60 H 910  | RT-8558 | 44 mc    | Second IF      | 1   |
| 60 H 911  | RT-8551 | 45 mc    | TV 3rd IF      | 1   |



## RECEIVER-TYPE VARIABLE CAPACITORS

amer and padder  
s. Treated for  
to humidity  
nance of ca-  
tings. Low-loss  
ase. Clear India  
igid plates per-  
oid soldering  
out affecting capacity. Size  $1\frac{1}{2} \times \frac{3}{4} \times$   
c. str.,  $\frac{1}{32}$ ". Ranges indicated from 3  
m to tight setting. Av. shpg. wt., 2 oz



| K  | Min.<br>Mmf. | Max.<br>Mmf. | NET<br>EACH |
|----|--------------|--------------|-------------|
| 47 | 1.5          | 15           | 12¢         |
| 40 | 2.0          | 30           | 12¢         |
| 41 | 5.0          | 80           | 12¢         |
| 42 | 9.0          | 180          | 14¢         |
| 43 | 25           | 280          | 15¢         |
| 44 | 50           | 380          | 17¢         |
| 45 | 80           | 480          | 19¢         |
| 46 | 110          | 580          | 23¢         |
| 48 | 140          | 680          | 24¢         |
| 49 | 170          | 780          | 27¢         |

with rigid or flex-  
drlings for mount-  
controls, etc.,  
om the panel.  
has short stub  
; long shaft extending back for cou-  
de of brass. Take panels up to 16"  
or standard 1/4" shafts. Supplied with  
sulating washers. Wt., 3 oz.

5. Overall length, 3". NET.....32c  
6. Overall length, 6". NET.....38c  
0. Bearing only. NET.....9c



**JOHNSON FLEXIBLE SHAFTS**  
 ing phosphor-  
 flexible shafts  
 hubs. Ideal for  
 ing out-of-line shafts together. Handy  
 for Amateurs, experimenters, labs.  
 ait up to 90 degrees angular control.  
 . 2 oz.



10. 116-253. Length, 3'. NET... 50c  
 1. 116-264. Length, 6'. NET... 75c

ing phosphor-  
flexible shafts  
hubs. Ideal for  
ing out-of-line shafts together. Handy  
for Amateurs, experimenters, labs,  
ait up to 90 degrees angular control.  
2 oz.  
10. 115-253. Length, 3". NET... 50c  
11. 115-254. Length, 6". NET... 75c



**Sizing**

for extending shafts of volume  
conduits, capacitors, etc., or for ganging  
units, even when shafts are not of the  
same diameter. Insulated types are made of  
phenolic. Extenders for decreasing or  
increasing shaft diameter and for extending  
length. 60 H 366 has  $\frac{1}{8}$ " opening,  $\frac{1}{4}$ "  
shaft length on all extenders,  $\frac{3}{8}$ "; overall  
length, 4". Av. shpg. wt., 4 oz.

|   | Insulated | Type     | Size           |
|---|-----------|----------|----------------|
| 0 | 60 H 350  | Coupling | 3/4" to 1 1/4" |
| 1 |           | Coupling | 1 1/4" to 2"   |
| 2 | 60 H 352  | Coupling | 2" to 2 1/2"   |
| 5 | 60 H 355  | Extender | 2 1/2" to 3"   |
| 6 |           | Extender | 3" to 3 1/2"   |

**C-46S.** Sturdy, slip-  
ulated coupling. Excel-  
lently providing flexible link-  
age for angularly misaligned  
shafts. Maximum torque is lim-  
ited by holding power of  
screws (2 on each side).  
on all standard  $\frac{1}{4}$ "-diameter shafts.  
Price,  $\$1.95$ . Flash voltage, 5000 v.  
1  $\frac{1}{2}$ " Shpg. wt., 3 oz.



**NC-46S.** As above, but non-insulated, durable, heavy-duty construction. Main-ten, slip-proof grip. Has flexible arms to compensate for shaft misalignment. Plated brass ring. 1 1/4" diameter x 2 3/32".  
3 oz.  
NET 93

**RELATED COUPLING**  
 ...ing drive shafts to ca-  
 ...ang switches, controls  
 ...r components. Bakelite  
 ...n. Hubs drilled to fit  
 ...s; set-screws hold rigid-  
 ...wt., 2 oz.  
 ...E. NET.



53



**Widget Superhet.** Miniature size without sacrifice of performance makes these 2-gang variables perfect for portable and midget sets. Capacity: RF section, 14.5 to 368 mmf, 27 plates; osc. section, 11.6 to 136.6 mmf, 15 plates. Capacity increases with counter-clockwise rotation. For use with 455 kc IF. With 100 ohm antenna. Size:  $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{2}$  inch diameter shaft. Mounts in 1" by 1" frame. Ball-bearing mounted shaft. Shpg. wt., 6 oz.

**61 H QOB. NET**

**1.05**



**Miniature Superhet.** RF section is 10.8 mmf to 232.4 mmf. Oscillator section is 8.5 mmf to 106.3 mmf. 1 $\frac{1}{2}$  x  $\frac{1}{2}$  x 1 $\frac{1}{2}$ . 5 oz.  
**61 H 011, NET 95c**

**Midget TRF.** Compact, 33-plate, single-gang capacitor. Variable from 15 to 409 mmf. Capacity increases clockwise. Set, 1 $\frac{1}{2}$ " deep, 1 $\frac{1}{2}$ " wide, 1 $\frac{1}{2}$ " high.  $\frac{1}{4}$ " diameter shaft extends  $\frac{1}{4}$ " beyond capacitor frame. Shpg. wt., 5 oz.  
**61 H 009, NET 76c**



**Midget Superhet.** Compact, variable, two-section capacitor designed for use with broadcast band transistor receivers. Ideal for small table models and portables. Counter-clockwise rotation, capacity increase. Each section includes a trimmer for precise adjustment. Oscillator section designed for 455-kc IF. Oscillator capacity: 7.2 to 66 mmf. Antenna section capacity: 7.5 to 81 mmf. Shaft diameter: .040 in. L., 4 oz.

**61 M.Q.12. NET** **1.00**



**Miniature Superhet.** Two section, variable capacitor designed particularly for the special needs of miniature transmitter receivers. Although small in size, accuracy and precision are not sacrificed. Complete with trimmers.  $\frac{1}{8}$ " shaft has ball-bearing mount. Capacity ranges: Oscillator section, 6.1 to 73.4 mmf; RF section, 7.0 to 123.1 mmf. Size:  $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{4}$ ". Shpg. wt., 2 oz.

**61 H013, NET** ..... 1.04



**A** 90° capacitors with butterfly rotor plates. Electrical symmetry; low inductance; no moving contacts. Isolantite insulation. Removable plates. Air gap, .030". Shpg. wt., 10 oz.

| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | NET EACH |
|-----------|------------|----------|----------|----------|
| 75 H 001  | PL-6076    | 5        | 1.5      | 2.07     |
| 75 H 002  | PL-6077    | 7        | 2.0      | 2.32     |
| 75 H 003  | PL-6078    | 13       | 3.0      | 2.64     |

**B** Universal mounting. Isolantite insulation. Shaft has rear extension for ganging; except\* tAirgap .02"; others .03" Shpg. wt. 7 oz.

| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | NET EACH |
|-----------|------------|----------|----------|----------|
| 75 H 010  | PL-6000    | 10       | 1.2      | 1.35     |
| 75 H 011  | PL-6001    | 15       | 1.5      | 1.65     |
| 75 H 012  | PL-6002    | 25       | 2.0      | 1.85     |
| 75 H 013  | PL-6003    | 35       | 2.5      | 2.03     |
| 75 H 014  | PL-6004    | 50       | 2.8      | 2.18     |
| 75 H 015  | PL-6016†   | 75       | 2.7      | 1.89     |
| 75 H 016  | PL-6017†   | 100      | 3.0      | 2.48     |
| 75 H 017  | PL-6018*   | 140      | 5.0      | 3.48     |

**Type MT-833.** For antenna coupling, interstage coupling and receiver tracking applications. Has screw adjustment. Max. cap., 36 mmf; min. cap., 3 mmf. Shpg. wt., 4 oz.



**Two-Section Superhet**  
**Variable.** 19-plate oscillator section with 172.6 max.—10.6 min. mmf; has one 2-17 mmf trimmer. 27-plate IF section with 34 max.—14.5 min. mmf; has one 2-17 mmf trimmer. Provides 455 kc difference with coil and loop antenna, below. Capacity increases 11%  
 61 H 065, NET. 11 1/2"x2 1/2"x2 1/2" Shaft, 4 1/8" diameter, 3/4" long. Shpg. wt. 10 oz. 1.06



Oscillator Coil for Above. Shpg. wt., 4 oz.  
55 H 507. NET.....36¢

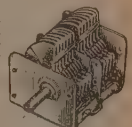
Loop Antenna for Above. Shpg. wt., 8 oz.  
51 C 040. NET.....53¢

**2-Cgang.** For use in superhets without Rktstage or in 15-25 TRF receivers. Each section has 29 plates. Range of 15.5 to 467.8 mmf., each section. Counter-clockwise rotation increases capacity. With trimmers for each section. End plates slotted for easy tracking adjustments. Spring brass wipers. Require series padder for oscillator use.  $\frac{1}{8}$ " dia. shaft. Use transformer 60 H 366 (left-hand lead to "A" shaft). Sec. coil and 1:1 F transformer section for coils. Size: 16 1/2" x 4 3/4" x 2 3/4". Shpg. wt., 10 oz. **61 H 059, NET.**



2- and 3-gang Capacitors. Compact TRF variable capacitors. Have trimmers on side of frame. Outer rotor plates are slotted for tracking adjustment. Tapped holes in order for quick and secure mounting. Range: 12 to 367 mmf. Shaft diameter,  $\frac{3}{16}$ ". Size of 2-gang:  $2\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ ". Size of 3-gang:  $3\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ ". A shaft length of 6 oz.

|                                   |      |
|-----------------------------------|------|
| 60 H 725 . 2-gang . NET . . . . . | 1.08 |
| 60 H 726 . 3-gang . NET . . . . . | 1.66 |



## "MC" MIDGETS

Sturdy, highly efficient midget variables. Single and double-bearing types; \*double. Fit.  $\frac{3}{8}$ " dia. mounting hole. Cadmium-plated brass rotor and stator plates. Steatite insulation. .024" air-gap. Shop. wt., 7 oz.



| Stock No. | Model | Max. Mmf. | Min. Mmf. | No. of Plates | NET EACH |
|-----------|-------|-----------|-----------|---------------|----------|
| 61 H 42   | 1850* | 15        | 3         | 5             | 1.78     |
| 61 H 43   | 1852* | 33        | 4         | 5             | 1.84     |
| 61 H 44   | 1853* | 50        | 5         | 7             | 2.43     |
| 61 H 45   | 1855* | 100       | 7         | 14            | 2.65     |
| 61 H 46   | 1856* | 140       | 7         | 19            | 2.72     |
| 61 H 47   | 1858* | 190       | 9         | 27            | 2.94     |
| 61 H 48   | 1859* | 235       | 10        | 33            | 3.38     |
| 61 H 49   | 1860* | 300       | 12        | 43            | 3.67     |
| 61 H 50   | 1870  | 15        | 3         | 5             | 1.76     |
| 61 H 51   | 1872  | 33        | 4         | 5             | 1.84     |
| 61 H 52   | 1873  | 50        | 5         | 7             | 1.91     |
| 61 H 53   | 1875  | 100       | 7         | 14            | 2.06     |
| 61 H 55   | 1876  | 140       | 8         | 19            | 2.30     |

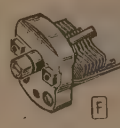
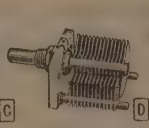
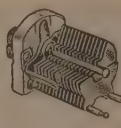
Compact, 3-gang capacitors designed for high frequency use. Ideal for converters, preselectors and receivers covering Amateur, TV and FM bands. Soldered brass plates and ceramic brackets  $4\frac{1}{2}$ " long. Rotor shafts extend  $\frac{1}{4}$ " at rear. \*LC-1660 is 2-gang. Metal parts cadmium plated. Av. shpg. wt.  $\frac{1}{4}$  lb.



| Stock No. | Mfr's Type | Mmf/Section |      | Plates/Section | NET EACH |
|-----------|------------|-------------|------|----------------|----------|
|           |            | Max.        | Min. |                |          |
| 61 H 59   | *LC-1660   | 15          | 3    | 5              | 3.23     |
| 61 H 56   | LC-1845    | 11          | 5    | 5              | 5.14     |
| 61 H 57   | LC-1846    | 17          | 5    | 7              | 5.73     |
| 61 H 58   | LC-1847    | 25          | 6    | 9              | 6.11     |

# Variable Capacitors

## HAMMARLUND CAPACITORS FOR AMATEUR, INDUSTRIAL AND MILITARY USE



TYPE MC

TYPE MAPC

TYPE HF

**A** Silicized stearite base, nickel-plated brass plates. Panel or chassis mtg. "Straight-line" capacity characteristic; others have mid-line characteristic. Air gap: M and S types, .0243"; M and SX types, .0715"; tested at 1000 v. and 1750 v. (60 cycle rms) respectively. Capacity increases with clockwise rotation. Continuous rotation. Size: S type,  $\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8}$ "; M type,  $2\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8}$ ". Shpg. wt., 10 oz.

**C** Midget padding, trimming and general-purpose capacitors. Similar to APC, but smaller. Ideal for small space applications. Gap, .0135". Rotors and stators are nickel-plated brass. Nickel-plated beryllium copper wiper contact. Tapped (4-40 thread) brass studs in stearite base permit mounting without grounding rotor. Tested at 600 volts rms, 60 cps. Overall size:  $\frac{3}{8} \times \frac{1}{2} \times \frac{1}{8}$ " wide,  $\frac{1}{8} \times \frac{1}{2} \times \frac{1}{8}$ " high. All are adjustable with screwdriver or hex wrench. Shpg. wt., 4 oz.

**E** Ideal for critical high-frequency circuits. Isolantite insulation. "Double-spaced" HF:  $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8}$ "; HFD:  $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8}$ ". Shpg. wt.

| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | NET EACH |
|-----------|------------|----------|----------|----------|
| 72 H 425  | *MC-20-S   | 20       | 5.5      | 2.27     |
| 72 H 426  | *MC-35-S   | 35       | 6.0      | 2.31     |
| 72 H 427  | *MC-50-S   | 50       | 6.5      | 2.48     |
| 72 H 428  | *MC-75-S   | 80       | 6.3      | 2.46     |
| 72 H 429  | *MC-100-S  | 100      | 8.0      | 2.55     |
| 72 H 430  | *MC-140-S  | 140      | 7.3      | 2.57     |
| 72 H 431  | *MC-200-S  | 200      | 8.3      | 2.69     |
| 72 H 432  | *MC-100-M  | 100      | 7.7      | 2.72     |
| 72 H 433  | *MC-140-M  | 140      | 9.0      | 2.88     |
| 72 H 434  | *MC-140-S  | 140      | 10.0     | 2.85     |
| 72 H 435  | *MC-200-M  | 200      | 10.3     | 3.27     |
| 72 H 436  | *MC-250-M  | 250      | 12.0     | 3.41     |
| 72 H 437  | *MC-325-M  | 320      | 13.5     | 3.90     |

| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | NET EACH |
|-----------|------------|----------|----------|----------|
| 72 H 208  | MAPC-15    | 15       | 2.3      | 1.01     |
| 72 H 209  | MAPC-25    | 25       | 2.6      | 1.10     |
| 72 H 210  | MAPC-35    | 35       | 2.9      | 1.10     |
| 72 H 211  | MAPC-50    | 50       | 3.2      | 1.19     |
| 72 H 212  | MAPC-75    | 75       | 3.9      | 1.29     |
| 72 H 213  | MAPC-100   | 100      | 4.5      | 1.44     |

| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | NET EACH |
|-----------|------------|----------|----------|----------|
| 72 H 215  | HF-15      | 15       | 1.75     | 0.8      |
| 72 H 216  | HF-35      | 35       | 3.2      | 1.1      |
| 72 H 217  | HF-50      | 52       | 3.7      | 1.2      |
| 72 H 218  | HF-100     | 102      | 5.3      | 1.4      |
| 72 H 219  | HF-140     | 142      | 6.3      | 1.6      |
| 72 H 220  | *HF-15-X   | 15       | 3.6      | 1.1      |
| 72 H 221  | *HF-30-X   | 30       | 5.2      | 1.4      |

HFD SPLIT-STATOR

| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | NET EACH |
|-----------|------------|----------|----------|----------|
| 72 H 230  | HFD-50     | 52       | 3.6      | 1.4      |
| 72 H 231  | HFD-100    | 102      | 5.0      | 1.6      |
| 72 H 232  | HFD-140    | 142      | 6.0      | 1.8      |
| 72 H 233  | *HFD-15-X  | 16       | 3.8      | 1.2      |
| 72 H 234  | *HFD-30-X  | 28.5     | 5.0      | 1.4      |

DOUBLE-SPACED MC's

| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | NET EACH |
|-----------|------------|----------|----------|----------|
| 72 H 451  | *MC-20-SX  | 20       | 6.8      | 2.63     |
| 72 H 452  | *MC-35-SX  | 32       | 8.5      | 2.79     |
| 72 H 453  | *MC-35-MX  | 32       | 7.8      | 2.69     |
| 72 H 454  | *MC-50-SX  | 53       | 11.5     | 2.35     |
| 72 H 455  | *MC-100-SX | 103      | 10.5     | 2.62     |
| 72 H 456  | *MC-100-SX | 100      | 16.5     | 2.64     |

TYPE MCD DUALS

| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | NET EACH |
|-----------|------------|----------|----------|----------|
| 72 H 465  | MCD-50-M   | 50       | 5.5      | 7.25     |
| 72 H 466  | MCD-100-M  | 100      | 6.3      | 7.74     |
| 72 H 467  | *MCD-100-M | 100      | 7.0      | 6.74     |
| 72 H 468  | MCD-140-M  | 140      | 7.8      | 8.16     |

DOUBLE-SPACED DUALS

| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | NET EACH |
|-----------|------------|----------|----------|----------|
| 72 H 469  | MCD-35-MX  | 31       | 6.0      | 7.44     |
| 72 H 470  | MCD-35-SX  | 31       | 6.8      | 6.51     |

**D** Sturdy capacitors, similar to HF, but larger plates and wider air gaps. For general-purpose and transmitting applications. Single-hole panel mounting. Also bracket for base mounting. End letter A in type no. denotes .02" air gap, B—.03", E—.07", 800, 1200 and 1750 test volts respectively.  $1\frac{1}{8} \times 1\frac{1}{2} \times \frac{1}{8}$ ". Wt. 1 lb.

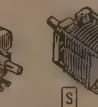
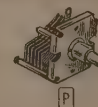
| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | NET EACH |
|-----------|------------|----------|----------|----------|
| 72 H 224  | HFA-10B    | 9        | 2.3      | 1.62     |
| 72 H 225  | HFA-15B    | 16       | 2.8      | 1.71     |
| 72 H 226  | HFA-15E    | 16       | 4.0      | 1.85     |
| 72 H 227  | HFA-25B    | 25       | 3.0      | 1.74     |
| 72 H 228  | HFA-50B    | 50       | 4.3      | 1.92     |
| 72 H 229  | HFA-100B   | 100      | 7.5      | 3.05     |
| 72 H 230  | HFA-100A   | 102      | 4.5      | 2.13     |
| 72 H 231  | HFA-140A   | 145      | 6.0      | 2.39     |

TYPE MAC

(Not illustrated.) Extremely small variable capacitors. Excellent for use as VHF trimmers. Steatite base; only  $\frac{1}{8} \times \frac{1}{8} \times \frac{1}{8}$ ". Screwdriver adjustment. Have threaded sleeve for convenient panel mounting. Shpg. wt. 4 oz.

| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | NET EACH |
|-----------|------------|----------|----------|----------|
| 72 H 255  | MAC-5      | 5.4      | 1.3      | 1.00     |
| 72 H 256  | MAC-10     | 9.6      | 1.5      | 1.05     |
| 72 H 257  | MAC-15     | 15.8     | 1.9      | 1.20     |
| 72 H 258  | MAC-20     | 21.5     | 2.2      | 1.35     |

## E. F. JOHNSON CAPACITORS



TYPE "M" MINIATURE VARIABLES

Excellent for design of compact VHF and UHF equipment. Bridge-type stator terminal provides low inductance; oversize bearing, heavily anchored stator supports insure rigidity.  $\frac{3}{8} \times \frac{1}{2}$ " panel mtg. space,  $\frac{1}{4}$ " hole. Slotted shaft takes  $\frac{1}{8}$ " knob, 1250 volts approximate peak break-down. Low-loss stearite insulation. Nickel-plated. Av. shpg. wt., 2 oz.

TYPE "R" VARIABLES

| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | No. of Plates | NET EACH |
|-----------|------------|----------|----------|---------------|----------|
| 75 H 175  | 160-102    | 5.0      | 1.5      | 5             | 1.00     |
| 75 H 176  | 160-104    | 8.7      | 1.8      | 9             | 1.05     |
| 75 H 177  | 160-107    | 14.2     | 2.3      | 15            | 1.20     |
| 75 H 178  | 160-110    | 19.6     | 2.7      | 21            | 1.35     |
| 75 H 179  | 160-1130   | 32       | 3        | 28            | 1.40     |

**M** For transmitting and receiving. Feature extra heavy stearite stator support insulators. Corrosion resistant, nickel-plated parts. Double bearing construction. Plate spacing .024".  $1\frac{1}{8} \times \frac{1}{2}$ " high and  $1\frac{1}{8} \times \frac{1}{2}$ " wide. Bearing threaded  $\frac{1}{8} \times \frac{1}{2}$ " for panel mounting. Shaft diameter,  $\frac{1}{8}$ ". Av. shpg. wt., 1 lb.

| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | No. of Plates | NET EACH |
|-----------|------------|----------|----------|---------------|----------|
| 75 H 053  | 149-1      | 20       | 5        | 3             | 2.25     |
| 75 H 054  | 149-2      | 35       | 6        | 5             | 2.35     |
| 75 H 055  | 149-3      | 50       | 6.5      | 7             | 2.45     |
| 75 H 056  | 149-4      | 80       | 8        | 11            | 2.60     |
| 75 H 057  | 149-5      | 102      | 8.5      | 14            | 2.75     |
| 75 H 058  | 149-6      | 140      | 13.5     | 19            | 2.95     |

TYPE "S" VARIABLES

**N** Ideal for use in VFO's, receivers, and transmitter tuning circuits. Steatite end frame, nickel-plated brass plates. Plate spacing, .013". 2" mtg. studs tapped 4-40 on  $\frac{1}{4}$ " centers.  $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{8}$ " panel space.  $\frac{1}{4}$ " hex shaft. Av. shpg. wt., 1 lb.

| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | No. of Plates | NET EACH |
|-----------|------------|----------|----------|---------------|----------|
| 75 H 905  | 148-1      | 15       | 2.3      | 6             | 1.10     |
| 75 H 906  | 148-2      | 25       | 2.6      | 10            | 1.15     |
| 75 H 907  | 148-3      | 35       | 3.0      | 14            | 1.20     |
| 75 H 908  | 148-4      | 50       | 3.3      | 19            | 1.30     |
| 75 H 909  | 148-5      | 75       | 3.9      | 29            | 1.45     |
| 75 H 910  | 148-6      | 100      | 4.5      | 38            | 1.65     |

**Q** Top-quality, general purpose capacitors. Steatite end frames. Plate spacing, .030", bearing threaded  $\frac{1}{8} \times \frac{1}{2}$ ". Shaft diameters,  $\frac{1}{8}$ ".  $1\frac{1}{8} \times \frac{1}{2}$ " panel space. Av. shpg. wt., 1 lb.

P SINGLE SECTION—ONE END FRAME

| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | No. of Plates | NET EACH |
|-----------|------------|----------|----------|---------------|----------|
| 75 H 911  | 167-1      | 11       | 2.8      | 3             | 1.1      |
| 75 H 912  | 167-2      | 27       | 3.5      | 7             | 1.1      |
| 75 H 913  | 167-3      | 51       | 4.6      | 13            | 1.1      |
| 75 H 914  | 167-4      | 75       | 5.7      | 19            | 2.2      |

R SINGLE SECTION—TWO END FRAMES

| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | No. of Plates | NET EACH |
|-----------|------------|----------|----------|---------------|----------|
| 75 H 918  | 167-11     | 99       | 6.8      | 25            | 3.3      |
| 75 H 919  | 167-12     | 202      | 11.6     | 51            | 4.4      |

S BUTTERLY

| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | No. of Plates | NET EACH |
|-----------|------------|----------|----------|---------------|----------|
| 75 H 923  | 167-21     | 10.5     | 2.8      | 5             | 1.1      |
| 75 H 927  | 167-22     | 26       | 4.3      | 12            | 2.2      |
| 75 H 928  | 167-23     | 51       | 6.8      | 23            | 2.2      |

T DIFFERENTIAL

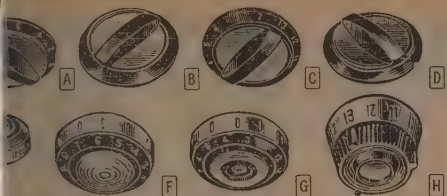
| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | No. of Plates | NET EACH |
|-----------|------------|----------|----------|---------------|----------|
| 75 H 929  | 167-31     | 11       | 2.8      | 3             | 2.2      |
| 75 H 930  | 167-32     | 27       | 3.5      | 7             | 2.2      |
| 75 H 931  | 167-33     | 51       | 4.6      | 13            | 2.2      |

W DIFFERENTIAL

| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | No. of Plates | NET EACH |
|-----------|------------|----------|----------|---------------|----------|
| 75 H 932  | 167-51     | 27       | 5.0      | 7             | 3.3      |
| 75 H 943  | 167-52     | 51       | 6.5      | 13            | 3.3      |
| 75 H 944  | 167-53     | 99       | 9.8      | 25            | 4.4      |



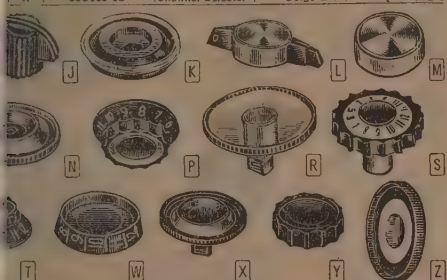
# G-C Exact Replacement TV Knobs



## ADMIRAL KNOBS

Av. shpg. wt., 3 oz.

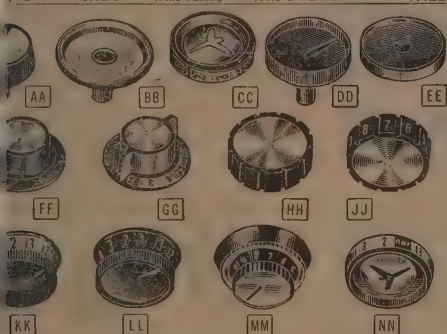
| Fig. | Orig. Mfr's No. | Use              | Color           | NET  |
|------|-----------------|------------------|-----------------|------|
| A    | 33C53-5         | Channel Selector | Mahogany        | .97  |
| B    | 33C53-7         | On-Off Volume    | Mahogany        | .73  |
| C    | 33C53-9         | Channel Selector | Mahogany & Gold | 1.07 |
| D    | 33C53-11        | On-Off Volume    | Mahogany & Gold | .91  |
| E    | 33D107-3        | Channel Selector | Mahogany & Gold | 1.91 |
| F    | 33D107-13       | Channel Selector | Mahogany & Gold | 2.32 |
| G    | 33D136-6        | Channel Selector | Mahogany & Gold | 2.32 |
| H    | 33B165-13       | Channel Selector | Mahogany & Gold | 1.15 |
|      | 33D165-92       | Channel Selector | Beige & Gold    | 1.56 |



## RCA KNOBS

Av. shpg. wt., 3 oz.

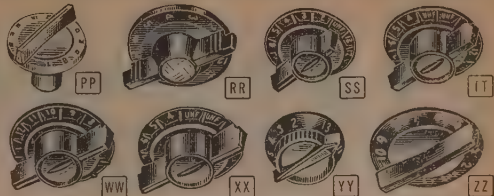
| Fig. | Orig. Mfr's No. | Use              | Color                      | NET  |
|------|-----------------|------------------|----------------------------|------|
| J    | 76770           | Channel Selector | Dark Mahogany & Gold       | 1.44 |
| K    | 76770           | Fine Tuning      | Brown w/ Polished Brass    | 1.53 |
| L    | 77708           | Channel Selector | Red w/ Polished Brass      | 1.47 |
| M    | 77710           | On-Off Volume    | Black, Polished Brass      | 1.53 |
| N    | 79464           | Fine Tuning      | Gold, Maroon               | 1.23 |
| P    | 79465           | Channel Selector | Amber, Gray, Maroon & Gold | 1.73 |
| R    | 100627          | Channel Selector | Maroon w/ Polished Brass   | 2.64 |
| S    | 100629          | Fine Tuning, UHF | Clear w/ Gold Edge         | 1.23 |
| T    | 100637          | Channel Selector | Brown                      | 1.73 |
| W    | 100944          | Channel Selector | Dark Wine                  | 1.33 |
| X    | 101015          | Fine Tuning      | Gold & Maroon              | 1.23 |
| Y    | 101150          | Channel Selector | Dark Wine                  | 1.88 |
| Z    | 101276          | Fine Tuning      | Gold & Maroon              | 1.23 |



## G.E. KNOBS

Av. shpg. wt., 3 oz.

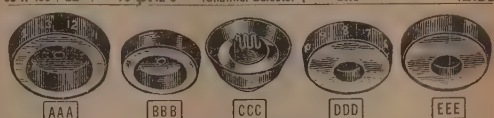
| Fig. | Orig. Mfr's No.  | Use              | Color          | NET  |
|------|------------------|------------------|----------------|------|
| AA   | G1001            | Channel Selector | Black & Gold   | .90  |
| AB   | G1002            | Channel Selector | Black & Silver | .90  |
| BB   | G1003            | Fine Tuning      | Silver         | .90  |
| CC   | GW43X246         | Channel Selector | Green & Gold   | 1.23 |
| DD   | WT43X278         | Channel Selector | Clear & Gold   | 2.06 |
| EE   | WT43X42(RDK224)  | Fine Tuning      | Fawn           | .56  |
| FF   | WT43X41(RDK223)  | Off-On Volume    | Fawn           | .73  |
| GG   | WT43X42(RDK224)  | Channel Selector | Fawn           | .56  |
| HH   | WT43X53 RDK263   | Off-On Volume    | Brown & Fawn   | .97  |
| JJ   | WT43X54 RUK264   | Channel Selector | Brown & Fawn   | 1.47 |
| KK   | WT43X76(RDK331)  | Channel Selector | Brown & Gold   | 1.88 |
| MM   | WT43X139(RDK434) | Channel Selector | Brown & Gold   | 2.06 |
| LL   | WT43X141(RDK435) | Channel Selector | Fawn & Gold    | 2.23 |
| NN   | WT43X152(RDK436) | Channel Selector | Brown          | 2.79 |
| NN   | WT43X159(RDK469) | Channel Selector | Brown          | 1.76 |



## PHILCO KNOBS

Av. shpg. wt., 3 oz.

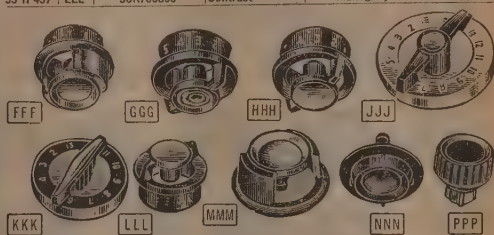
| Stock No. | Fig. | Orig. Mfr's No. | Use               | Color           | NET  |
|-----------|------|-----------------|-------------------|-----------------|------|
| 55 H 438  | PP   | 54-6261-17      | Channel Selector  | Ivory & Gold    | 2.35 |
| 55 H 439  | PP   | 54-6261-19      | Channel Selector* | Ivory & Gold    | 2.35 |
| 55 H 441  | PP   | 54-6261-24      | Channel Selector  | Ivory only      | 2.35 |
| 55 H 442  | RR   | 56-7807         | Channel Selector  | Mahogany        | 1.97 |
| 55 H 443  | RR   | 57-7807-1       | Channel Selector  | Dark Brown      | 1.97 |
| 55 H 444  | SS   | 76-6863-12      | Channel Selector  | Mahogany        | 2.20 |
| 55 H 445  | SS   | 76-6863-32      | Channel Selector  | Black           | 1.82 |
| 55 H 446  | WW   | 76-6863-9       | Channel Selector  | Black           | 2.20 |
| 55 H 447  | XX   | 76-6863-14      | Channel Selector  | Mahogany & Gold | 2.53 |
| 55 H 450  | YY   | 76-9118-4       | Channel Selector  | Gold & Tan      | 2.76 |
| 55 H 451  | YY   | 76-9118-31      | Channel Selector  | Brown           | 2.78 |
| 55 H 452  | ZZ   | 76-1142-7       | Channel Selector* | Gold            | 2.35 |
| 55 H 453  | ZZ   | 76-1142-8       | Channel Selector  | Gold            | 2.35 |



## MOTOROLA KNOBS

Av. shpg. wt., 3 oz.

| Stock No. | Fig. | Orig. Mfr's No. | Use               | Color           | NET  |
|-----------|------|-----------------|-------------------|-----------------|------|
| 55 H 433  | AAA  | 36K700886       | Channel Selector  | Mahogany & Gold | 1.15 |
| 55 H 434  | BBB  | 36K700887       | Contrast          | Mahogany & Gold | 1.09 |
| 55 H 435  | CCC  | 36K700888       | Fine Tuning, Vol. | Mahogany & Gold | .97  |
| 55 H 436  | DDD  | 36K700889       | Channel Selector  | Mahogany & Gold | 1.15 |
| 55 H 437  | EEE  | 36K700890       | Contrast          | Mahogany & Gold | 1.09 |



## WESTINGHOUSE KNOBS

Av. shpg. wt., 3 oz.

| Stock No. | Fig. | Orig. Mfr's No. | Use               | Color           | NET  |
|-----------|------|-----------------|-------------------|-----------------|------|
| 55 H 479  | KKK  | 10676-2         | Channel Selector  | Green & Gold    | 2.88 |
| 55 H 480  | KKK  | 10676-1         | Channel Selector  | Mahogany & Gold | 2.69 |
| 55 H 481  | JJJ  | 11146-1         | Channel Selector  | Green & Gold    | 2.94 |
| 55 H 478  | JJJ  | 11146-2         | Channel Selector  | Tan & Gold      | 2.65 |
| 55 H 484  | HHH  | 12118-1         | Channel Selector* | Gold & Maroon   | 1.38 |
| 55 H 485  | GGG  | 12118-2         | Channel Selector* | Maroon          | 1.18 |
| 55 H 476  | HHH  | 12404-1         | Channel Selector  | Gold & Mahogany | 1.47 |
| 55 H 483  | GGG  | 12404-2         | Channel Selector  | Maroon          | 1.47 |
| 55 H 475  | GGG  | 12404-6         | Channel Selector  | Rust            | 1.47 |
| 55 H 490  | MMM  | 12913-1         | On-Off Volume     | Mahogany & Gold | .56  |
| 55 H 491  | MMM  | 12913-3         | On-Off Volume     | Mahogany        | .56  |
| 55 H 489  | PPP  | 12930-1         | On-Off Volume     | Dark Red & Gold | 1.23 |
| 55 H 494  | PPP  | 12930-3         | Fine Tuning       | Rust            | .56  |
| 55 H 488  | LLL  | 14229-3         | Channel Selector  | Mahogany & Gold | 2.69 |
| 55 H 486  | LLL  | 14229-1         | Channel Selector  | Mahogany        | 1.47 |
| 55 H 487  | LLL  | 14229-6         | Channel Selector  | Dark Red & Gold | 2.94 |
| 55 H 473  | FFF  | 14426-1         | Channel Selector  | Gold & Mahogany | 2.94 |
| 55 H 474  | FFF  | 14426-3         | Channel Selector  | Mahogany        | 1.12 |
| 55 H 481  | FFF  | 14426-7         | Channel Selector  | Black & Gold    | 2.12 |
| 55 H 482  | FFF  | 14426-8         | Channel Selector  | Gray            | 2.94 |
| 55 H 493  | NNN  | 15226-1         | On-Off Volume     | Mahogany        | .82  |
| 55 H 492  | NNN  | 15226-3         | On-Off Volume     | Dark Red & Gold | .82  |

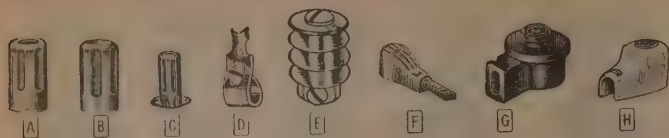


## ZENITH KNOBS

Av. shpg. wt., 3 oz.

| Stock No. | Fig. | Orig. Mfr's No. | Use              | Color           | NET  |
|-----------|------|-----------------|------------------|-----------------|------|
| 55 H 469  | RRR  | 45959           | Channel Selector | Gold & Mahogany | 1.32 |
| 55 H 468  | RRR  | 46997           | Channel Selector | Gold & Ivory    | 1.32 |
| 55 H 470  | SSS  | S-20208         | Channel Selector | Gold & Gray     | 1.94 |
| 55 H 471  | SSS  | S-20220         | Channel Selector | Gold & Mahogany | 1.94 |
| 55 H 472  | TTT  | S 21308         | Channel Selector | Gold            | 1.94 |

# Knobs, Caps, Dials, Shields, Insulators



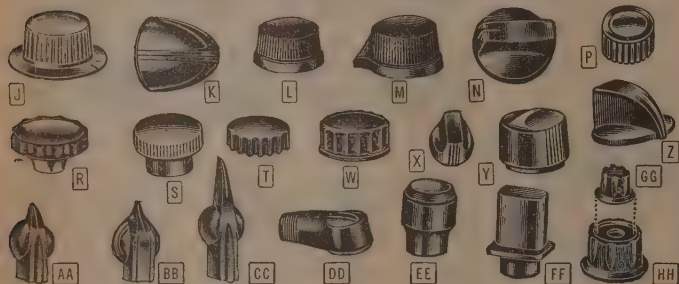
## TUBE SHIELDS AND CAPS

A complete selection of caps and shields for receiving and transmitting tubes. Shields are used extensively with high-gain RF and audio amplifier tubes to minimize microphonics, and prevent oscillation, hum pickup, etc. Also used to shield oscillator and converter tubes to avoid radiation. Tube caps provide positive, dependable contact. Listing includes heat-

dissipating types—fins provide large surface area for rapid radiation of heat; have set-screw for secure connection. Millen type 36011 gives tighter-than-normal grid for use in industrial and mobile applications; self-locking, has snap-button release. \*For use with wire leads. All others listed are cap type. Av. shpg. wt. per pkg., 3 oz.

| Stock No. | Fig.  | Description and Application                                                                                                   | Per Pkg. | NET Per Pkg. |
|-----------|-------|-------------------------------------------------------------------------------------------------------------------------------|----------|--------------|
| 42H 510   | A     | Goat G1332-3 tube shield for GT tubes, 2 1/2" high, 3/4" hole.                                                                | 4        | 25c          |
| 42H 511   | B     | Goat G1332-5A. Same as 42H 510, but with closed top.                                                                          | 4        | 25c          |
| 42H 512   | C     | Goat G1700 tube shield for min. T5 1/2 with G1710-B base. 5 1/2" x 1 1/2".                                                    | 3        | 14c          |
| 42H 514   | D     | National Type 24. For standard tubes, 3/4" dia. grid caps.                                                                    | 5        | 20c          |
| 42H 515   | D     | National Type 8. For octal tubes, 1/4" diameter grid caps.                                                                    | 5        | 20c          |
| 42H 508   | ..... | (Not illustrated). Goat G1004-2 ground clip for grounding shields on octal tubes.                                             | 10       | 11c          |
| 42H 506   | ..... | (Not illustrated). Goat G1307-2 double clip for octal base tubes (fits on tube socket).                                       | 5        | 7c           |
| 42H 093   | E*    | Elmac HR-3 heat dissipating cap for 35T, 250TH, etc. 1/2" hole.                                                               | 1        | 1.20         |
| 42H 096   | E*    | Elmac HR-6 heat dissipating cap for 4-250A, 304TH, etc. 3/4" hole.                                                            | 1        | 1.20         |
| 73H 007   | E     | Bud TC-487 heat dissipating cap for UH50, HK24, 304B, 829B, 832A, 834. 1/2" hole.                                             | 1        | 67c          |
| 73H 001   | E     | Bud TC-489 heat dissipating cap for 35T, HK54, etc. 3/4" hole.                                                                | 1        | 67c          |
| 73H 002   | E     | Bud TC-1920 heat dissipating cap for 800T, 807, 4-125A, 2-150D, 250TH, 4-250A, 6146, 1625, 4032, 807W, 1B3GT, etc. 3/4" hole. | 1        | 67c          |
| 73H 003   | E     | Bud TC-1921 heat dissipating cap for 866, T125, HF100, 450TH, 750TH, 809, 811, 812, 813, 828, 866, etc. 3/4" hole.            | 1        | 78c          |
| 72H 082   | G     | Millen 36011 industrial snap-action plate cap. 3/4".                                                                          | 1        | 75c          |
| 71H 246   | F     | National SPP-9 ceramic-insulated grid and plate cap. 3/4".                                                                    | 1        | 24c          |
| 72H 018   | D     | National Type 12 grid and plate cap. 3/4".                                                                                    | 1        | 21c          |
| 72H 069   | H     | Millen Type 36002 stellite tube cap, 3/4".                                                                                    | 1        | 24c          |
| 72H 140   | H     | Millen Type 36004 stellite tube cap, 1/4".                                                                                    | 1        | 24c          |
| 72H 068   | H     | Millen 36001 stellite plate cap for 866, etc. 3/4".                                                                           | 1        | 24c          |

## HARRY DAVIES MOLDED KNOBS



A wide selection of handsomely styled plastic knobs. For replacement use on majority of radios and TV sets. Figs. L and M are for use on small radios. \*For knurled shafts; screws into 1/8" threaded shaft; self-locking friction

fit for flat wire shafts; all others equipped with setscrews to permit use with either round or flattened 1/8" shafts. \*Indicates types not manufactured by Harry Davies. \*\*For use with dual concentric shafts. Av. shpg. wt., 3 oz.

| Stock No. | Fig. | Size   | Color    | 1-9 EA. | 10-49 EA. | Stock No. | Fig.   | Size   | Color | 1-9 EA. | 10-49 EA. |
|-----------|------|--------|----------|---------|-----------|-----------|--------|--------|-------|---------|-----------|
| 55H 031   | J    | 1 1/2" | Black    | .13     | .117      | 54H 980   | W      | 1 1/2" | Black | .09     | .081      |
| 55H 032   | J    | 1 1/2" | Red      | .14     | .126      | 54H 981   | W      | 1 1/2" | Black | .09     | .081      |
| 55H 080   | J    | 2 1/2" | Black    | .10     | .090      | 55H 067   | X      | 1 1/2" | Black | .35     | .315      |
| 55H 022   | K    | 3/4"   | Black    | .10     | .090      | 55H 083   | Y      | 1 1/2" | Black | .10     | .090      |
| 55H 025   | K    | 3/4"   | Black    | .12     | .108      | 55H 084   | Z      | 1 1/2" | Black | .10     | .090      |
| 55H 027   | K*   | 3/4"   | Walnut   | .05     | .048      | 55H 072   | A      | 1 1/2" | Black | .08     | .072      |
| 55H 028   | K*   | 3/4"   | Walnut   | .05     | .045      | 55H 073   | A      | 1 1/2" | Black | .09     | .081      |
| 55H 029   | K    | 3/4"   | Ivory    | .12     | .108      | 55H 078   | A      | 1 1/2" | Black | .13     | .117      |
| 55H 043   | L*   | 1 1/4" | Black    | .04     | .036      | 55H 074   | BB     | 1 1/2" | Black | .10     | .090      |
| 55H 033   | L    | 1 1/4" | Black    | .07     | .063      | 55H 070   | CC     | 2"     | Black | .16     | .144      |
| 55H 036   | L    | 1 1/4" | Walnut   | .07     | .063      | 55H 071   | CC     | 2"     | Red   | .17     | .153      |
| 55H 023   | M    | 1"     | Black    | .10     | .090      | 55H 079   | CC     | 2"     | Black | .12     | .108      |
| 55H 040   | M    | 1 1/4" | Black    | .07     | .063      | 55H 006   | DD     | 2 1/2" | Black | .17     | .153      |
| 55H 042   | M    | 1 1/4" | Black    | .04     | .036      | 55H 089   | DD     | 2 1/2" | Black | .18     | .162      |
| 55H 081   | M    | 1"     | Black    | .11     | .099      | 55H 056   | GG     | 3/4"   | Black | .14     | .126      |
| 55H 018   | N    | 1 1/2" | Black    | .11     | .099      | 55H 057   | HH     | 1 1/4" | Black | .15     | .135      |
| 55H 019   | N    | 1 1/2" | Red      | .12     | .108      | 55H 058   | GG     | 1 1/2" | Black | .15     | .135      |
| 55H 064   | P*   | 1 1/4" | \$Walnut | .18     | .162      | 55H 059   | **HHGG | 3/4"   | Black | .27     | .243      |
| 55H 024   | R    | 3/4"   | Black    | .10     | .090      | 55H 980   | EE     | 3 1/4" | Red   | .06     | .054      |
| 55H 050   | R    | 1 1/4" | Black    | .17     | .153      | 55H 981   | EE     | 3 1/4" | Black | .05     | .045      |
| 55H 082   | S†   | 3/4"   | Black    | .06     | .054      | 55H 983   | †FF    | 5 1/4" | Red   | .07     | .063      |
| 54H 982   | T    | 1"     | \$Walnut | .09     | .081      | 55H 982   | †FF    | 5 1/4" | Red   | .06     | .054      |

## CRONAME DIAL & SWITCH PLATE



### SQUARE DIAL PLATES

Attractive anodized aluminum dial plates with black scales. Available in a large variety of designations. Excellent for installers, hobbyists and experimenters. Use with 1 1/4" bar knob. Provide the finishing touch to give a custom-built look to high-fidelity public address amplifiers, preamps, tape recorders, etc. Size, 2 1/2" x 2 1/2", with 1/2" center hole. Shpg. wt., 2 oz.

| Stock No. | Type | Description          |
|-----------|------|----------------------|
| 55H H 160 | 448  | Treble, 0-10         |
| 55H H 161 | 447  | Bass, 0-10           |
| 55H H 137 | 429  | Reble, 5-0-5         |
| 55H H 136 | 428  | Bass, 5-0-5          |
| 55H H 164 | 416  | Microphone, 1, 0-10  |
| 55H H 165 | 417  | Microphone, 2, 0-10  |
| 55H H 126 | 415  | Microphone, 0-10     |
| 55H H 170 | 413  | Master Gain, 0-10    |
| 55H H 124 | 412  | Gain, 0-10           |
| 55H H 127 | 422  | Gain, 5-0-5          |
| 55H H 123 | 411  | Tone, 0-10           |
| 55H H 134 | 426  | Volume, 0-10         |
| 55H H 125 | 414  | Record, 0-10         |
| 55H H 135 | 427  | Fader, 5-0-5         |
| 55H H 430 | 410  | Expansion, 0-10      |
| 55H H 139 | 446  | Phono, 0-10          |
| 55H H 131 | 423  | Increase, with arrow |
| 55H H 172 | 410  | No title, 0-10       |

### NET EACH



### ROUND DIAL PLATES

Easy-to-read etched aluminum scale with black background. 1 1/4" diameter. Type 25 clockwise arrow labeled "use." Simple, one-hole mounting. Ideal for use on amplifier modulators, phonographs, transmitters, etc. Use with 1 1/4" bar knobs. center-hole. Shpg. wt., 2 oz.

| Stock No. | Type | Description | NET |
|-----------|------|-------------|-----|
| 55H H 141 | 25   | Volume      | 37c |
| 55H H 140 | 569  | 0-100, 180° | 37c |
| 55H H 108 | 905  | 0-100, 270° | 27c |

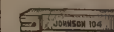
## "OFF-ON" SWITCH PLATE



Economy-priced "On" switch plate. Etched aluminum with black background. polished aluminum letters and border.

1 1/4" x 1 1/4". Shpg. wt., 2 oz.  
60 H 338. NET EACH

## JOHNSON ANTENNA INSULATOR



High-quality, strain-insulators for use in antenna construction. Glazed porcelain surfaces resist moisture sorption. 107 and 112 wet-process porcelain; 800 lbs. breaking strength. 104 dry-process porcelain; 400 lbs. breaking strength.

| Stock No. | Type    | Size            | Wt.       | NI  |
|-----------|---------|-----------------|-----------|-----|
| 73H 215   | 136-104 | 4"x3 1/2" sq.   | 4 oz.     | 1.1 |
| 73H 216   | 136-107 | 7"x1 1/2" dia.  | 10 oz.    | 1.1 |
| 73H 217   | 136-112 | 12"x1 1/2" dia. | 1 1/4 lb. | 1.1 |

## HARRY DAVIES FLUTED KNOBS



An excellent selection of high-quality plastic knobs. Functionally designed—add custom appearance to amateur, experimental, and equipment. Durable, high-gloss bakelite. Metal inserts with setscrews to fit flattened round 1/8" shafts. Shpg. wt., 4 oz.

| Stock No. | Fig. | Dia.   | 1-9 EA. | 10-49 EA. |
|-----------|------|--------|---------|-----------|
| 55H 085   | JJ   | 1 1/2" | .34     | .306      |
| 55H 086   | JJ   | 1 1/2" | .34     | .306      |
| 55H 086   | JJ   | 1 1/2" | .37     | .333      |
| 55H 087   | JJ   | 2 1/2" | .50     | .450      |
| 55H 095   | LL   | 1 1/2" | .22     | .197      |
| 55H 094   | LL   | 1 1/2" | .23     | .202      |
| 55H 096   | LL   | 1 1/2" | .24     | .214      |
| 55H 097   | LL   | 1 1/2" | .38     | .347      |
| 55H 092   | KK   | 1 1/2" | .42     | .378      |
| 55H 090   | KK   | 2 1/2" | .51     | .455      |



# National Components, Antenna Insulators, Dial Accessories

## CALIBRATED AND UNCALIBRATED DIALS



### CALIBRATED DIALS

are National dials for smooth performance and dependability. Recoded for all types of equipment. We can supply any National dial fully—specify type number for models not listed. †Gray, ‡Black.

| Stk. No. | Mfr's Type | Fig. | Ratio | Scale          | Dia.   | Wt. Oz. | NET EACH |
|----------|------------|------|-------|----------------|--------|---------|----------|
| 772      | AM-2       | ...  | 5:1   | 0-100; 180°    | 3"     | 10      | 4.89     |
| 773      | AM-3       | ...  | 5:1   | 100-10; 180°   | 3"     | 10      | 4.89     |
| 774      | AM-4       | ...  | 5:1   | 150-0; 270°    | 3"     | 10      | 4.89     |
| 777      | AM-5       | ...  | 5:1   | 200-0; 360°    | 3"     | 10      | 4.89     |
| 778      | AM-6       | ...  | 5:1   | 0-150; 270°    | 3"     | 10      | 4.89     |
| 667      | BM-1       | A    | Fixed | 0-100; 0; 180° | 3"     | 10      | 4.88     |
| 668      | BM-2       | A    | Fixed | 0-100; 180°    | 3"     | 10      | 4.64     |
| 669      | BM-5       | A    | Fixed | 200-0; 360°    | 3"     | 10      | 4.64     |
| 153      | N-5        | C    | 5:1   | 200-0; 360°    | 4"     | 12      | 7.50     |
| 191      | K-5        | C    | 5:1   | 0-100; 180°    | 3 1/2" | 12      | 1.73     |
| 158      | HRS-3 1/2  | D    | Fixed | 0-10; 300°     | 1 1/2" | 2       | .58      |
| 159      | HRS-3 1/2  | D    | Fixed | 0-10; 300°     | 1 1/2" | 2       | .58      |
| 118      | HRS-4 1/2  | D    | Fixed | 1-line; 300°   | 1 1/2" | 2       | .58      |
| 119      | HRS-4 1/2  | D    | Fixed | 1-line; 300°   | 1 1/2" | 2       | .58      |
| 170      | R          | E    | Fixed | 0-10; 180°     | 1 1/2" | 2       | .69      |

DDD Pinch Drive Mechanism. For Type O dial above. Same as "K" (Fig. C). With knob. 1 1/4 x 1/4". Shpg. wt., 2 oz. .48c

85 NPW-O Precision Gear Drive. Ruggedly constructed, gear-driven, precision dial mechanism featuring accuracy to one part in ten smooth control and high reset accuracy. Dial finished in black with numerals. Diameter, 4 1/2". Shpg. wt., 3 lbs. .37.50



### VERNIER DIALS FOR INDIVIDUAL CALIBRATION

Popular blank dials featuring famous "Velvet Vernier" with 5:1 drive ratio. Pointers have centered hairlines and pinholes for accurate calibration of each scale. Black-wrinkle finish, clear-view plastic windows. With extra scales, hardware, and hub for 1/4" shafts.

Type ACN. The famous original of this type with smart styling. Large-size vernier dial for easy direct calibration of 5 blank scales. Knob has bright chrome insert. 5" high, 7 1/4" wide. Shpg. wt., 1 1/4 lbs. 71 H 090. NET .780

Type SCN. Vernier dial same as above but intermediate in size. 4 1/2" high, 6 1/2" wide. Ideal for use where space is limited. Shpg. wt., 1 lb. 71 H 088. NET .780

Type ICN. Similar to above but has large, illuminated vernier dial, 5 1/2" high, 7 1/4" wide. Lights in upper corners. With standard bayonet sockets and mounting screws. Less lamps. Shpg. wt., 1 1/4 lbs. 71 H 087. NET .780

Type MCN. Small size vernier dial. Similar to above but not illuminated. 2 1/2" high, 3 3/4" wide. Perfect for mobile gear and other small units. 3 blank scales. Mechanism extends 1/4" below frame. 10 oz. 71 H 089. NET .720

Type AN Vernier Dial Drive Mechanism. (Not illus.) Smooth operating dial drive with 5 to 1 ratio. Same as used in above dial assemblies. Has 1/2" drive shaft and output hub for coupling to 1/4" shafts. 2 1/2" diameter by 1 1/2" overall. Shpg. wt., 12 oz. 71 H 064. NET .302

## ALSO DIAL CORD SPOOLS

cellent selection of dial cord spools. Collecting 80% of replacement demand. Some have either a fiber or a linen core. A pre-stretched to stretching and slip-resistant proper tenacious durable nylon sleeves. Av. shpg.



| Type           | Dia.    | Strgth. | Lgth. | EACH |
|----------------|---------|---------|-------|------|
| 652-Med-.040"  | 35 lbs. | 25 ft.  |       |      |
| 656-Thin-.025" | 15 lbs. | 25 ft.  |       | .73  |
| 654-Std-.028"  | 20 lbs. | 25 ft.  |       |      |
| 652-Med-.040"  | 35 lbs. | 100 ft. |       |      |
| 656-Thin-.025" | 15 lbs. | 100 ft. |       | 2.32 |
| 654-Std-.028"  | 20 lbs. | 100 ft. |       |      |

## DIAL POINTERS

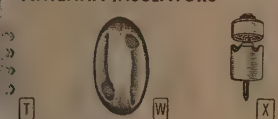
most radio sets. Set cut shorter. Luminous. 2 oz.

8810. Kit of 10 in plastic case. .4 oz. 149 NET..2.37



| Type   | Fig.   | Description        | Color      | NET |
|--------|--------|--------------------|------------|-----|
| 6802 N | 5"     | rotary; 1/4" shaft | Gold & Red | .24 |
| 6801 P | 3"     | rotary; 1/4" shaft | Gold       | .24 |
| 6804 R | 2"     | slide pointer      | White      | .24 |
| 6803 S | 2 1/2" | slide pointer      | Red        | .24 |

## ANTENNA INSULATORS

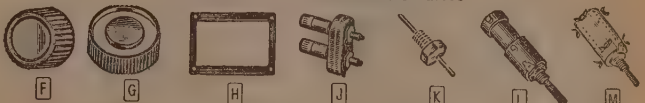


H 223. Glazed porcelain insulator. Best construction provides low leakage 4" long. Shpg. wt., 2 oz. 4 per pkg. ER PKG. 21c

H 224. White porcelain strain insulator. 1 1/2 x 1/4 dia. Breaks up guy lines into proper lengths. 2 oz. 4 per pkg. ER PKG. 29c

M 225. Standard nail knob for single line or 1" open lines. 1 1/4 x 1/4 dia. Shpg. 4 per pkg. ER PKG. 19c

## EQUIPMENT DESIGN COMPONENTS



| Stock No. | Type  | Fig. | Description                                | Wt. Oz. | NET  |
|-----------|-------|------|--------------------------------------------|---------|------|
| 71 H 173  | FWH   | J    | Terminal Jack Assembly—Binding Post.       | 4       | 1.10 |
| 71 H 176  | FWJ   | J    | Jack Assembly—As FWH, for jacks only       | 4       | .87  |
| 71 H 157  | FWT   | J    | Plug for FWH and FWJ terminal strips       | 3       | 1.56 |
| 71 H 208  | HR    | F    | Knob, Black; white dot                     | 2       | .35  |
| 71 H 209  | HR    | F    | Knob, Gray; same as above                  | 2       | .35  |
| 71 H 071  | HRP-P | G    | Bar knob with pointer. 1 1/4 x 1/2"        | 3       | .35  |
| 71 H 056  | HRT   | G    | Knob, Black; chrome insert. 2 1/4"         | 3       | .86  |
| 71 H 241  | HR-60 | M    | Knob, Gray; chrome insert. As above        | 3       | .86  |
| 71 H 242  | CRA   | H    | Chart frame; 1/4" steel; 2 1/4 x 3 1/4"    | 1       | .40  |
| 71 H 116  | TPB   | K    | Threaded Polystyrene Bushing               | 2       | .07  |
| 71 H 228  | XR-50 | L    | Coil Form, iron-slug tuned. Mica-bakelite  | 2       | 1.35 |
| 71 H 229  | XR-60 | M    | Coil Form, iron-slug. Grooved. Ceramic     | 2       | 3.98 |
| 71 H 241  | XR-60 | M    | Coil Form, iron-slug. Not grooved. Ceramic | 2       | 3.98 |
| 71 H 239  | XR-01 | M    | Coil Form, iron-slug tuned. Ceramic        | 2       | 1.20 |
| 71 H 122  | XS-6  |      | Steatite Bushing                           | 2       | .14  |

## FRONT-PANEL RIGHT-ANGLE DRIVE

Type RAD. Front panel control for variable capacitors, potentiometers, etc., at right angles to panel. Saves space by permitting greater freedom in parts layout. May be used to drive two units. Die-cast aluminum housing and gears. 2 1/2 x 1/4" shaft. 6 oz. 71 H 014. NET .431

Type P-RAD. As above, but deluxe precision model with brass gears, stainless steel shafts and bushings, bronze bearings and a die-cast zinc housing. Gears are protected by removable cover. Backlash less than 1/2%. 3 oz. 71 H 247. NET .1131

## STANDOFF INSULATORS

Steatite insulators for RF circuits. Cap and base are nickel plated brass. Glazed to prevent the absorption of moisture. Base and terminal assembly are removable to form single-screw pillar mount. Three mounting holes, spaced 120° accept 6-32 machine screws. Shpg. wt., 3 oz.

| Stock No. | Type | Ht.    | Dia.   | NET |
|-----------|------|--------|--------|-----|
| 71 H 125  | GS-1 | 1 1/8" | 1 1/2" | 27c |
| 71 H 126  | GS-2 | 2 1/8" | 1 1/2" | 35c |
| 71 H 127  | GS-3 | 2 1/8" | 3/4"   | 69c |

## ST TRANSMITTING CAPACITORS

Compact, rigid construction. Steatite insulation. Have straight-line-wave-length aluminum plates. Front bearing is insulated. Have provisions for panel, chassis or standoff insulator mounting. Air gap and peak voltage: .026", 1000 volts except † .018", 600 volts. Length, 3"; 180° rotation. Av. shpg. wt., 1 lb.

## TYPE ST—DOUBLE BEARING

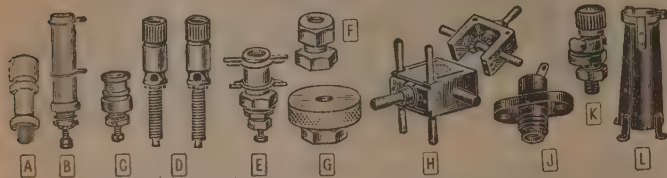
| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | NET EACH |
|-----------|------------|----------|----------|----------|
| 71 H 033  | ST-35      | 35       | 6        | 3.10     |
| 71 H 034  | ST-50      | 50       | 7        | 3.22     |
| 71 H 035  | ST-75      | 75       | 8        | 3.25     |
| 71 H 036  | ST-100     | 100      | 9        | 3.25     |
| 71 H 037  | ST-140     | 140      | 10       | 4.34     |
| 71 H 038  | ST-150     | 150      | 10.5     | 4.85     |
| 71 H 039  | STH-200    | 200      | 12       | 3.86     |
| 71 H 040  | STH-250    | 250      | 13.5     | 3.99     |
| 71 H 041  | STH-300    | 300      | 15       | 5.08     |
| 71 H 042  | STH-335    | 335      | 17       | 4.67     |

## ST—SPLIT STATOR DOUBLE BEARING

| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | NET EACH |
|-----------|------------|----------|----------|----------|
| 71 H 043  | STD-50     | 50-50    | 5-5      | 5.00     |
| 71 H 044  | STHD-100   | 100-100  | 5.5-5.5  | 4.14     |

# Millen Components

## "DESIGNED FOR APPLICATION" COMPONENTS



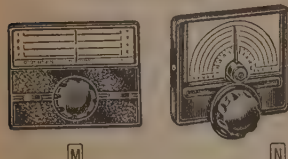
### Precision Components for Finest Performance

A selection of most widely used Millen "Designed for Application" components—famous for their outstanding quality among industrial, Amateur, and experimental users. Excellent for original-equipment applications, as well as for replacement purposes in existing units. All are made to exacting specifications to provide maximum dependability. Included in this listing are Series 69000 slug-tuned ceramic coil forms

—copper slug reduces inductance when it moves into coil; iron slug increases inductance. Form dimensions indicate diameters and winding lengths. Series 80000 cathode-ray bezels have satin black finish, neoprene cushions and green lucite filters. Refer to Manufacturers Index for page numbers of RF chokes and the many other Millen products listed in this Catalog. \*Items not illustrated.

| Stock No. | Type  | Fig. | Description                                                            | Oz. | NET   |
|-----------|-------|------|------------------------------------------------------------------------|-----|-------|
| 72 H 085  | 10012 | H    | Right Angle Drive.....                                                 | 5   | 5.00  |
| 72 H 08   | 10050 | K    | Dial Lock.....                                                         | 4   | .54   |
| 72 H 099  | 10061 | F    | Shaft Lock, for 3/4" Bushing; 1/2" shafts.....                         | 4   | .45   |
| 72 H 668  | A061  | F    | Shaft Lock, for 3/4" Bushing; 1/2" shafts.....                         | 4   | .39   |
| 72 H 088  | 10062 | G    | Shaft Lock with Knurled Nut.....                                       | 4   | .54   |
| 72 H 036  | 37001 | J    | High Voltage Terminal and Thru-Bushing, Red.....                       | 3   | .45   |
| 72 H 037  | 37001 | J    | High Voltage Terminal and Thru-Bushing, Red.....                       | 3   | .49   |
| 72 H 260  | 40305 | *    | 5-Prong Statelite Coil Plug.....                                       | 3   | .68   |
| 72 H 261  | 41305 | *    | 5-Prong Statelite Jack bar for above.....                              | 3   | .84   |
| 72 H 057  | 37202 | *    | Bakelite Plates (2) for 37222 below, Black.....                        | 2   | .36   |
| 72 H 059  | 37222 | D    | Binding Post.....                                                      | 6   | .30   |
| 72 H 130  | 69041 | C    | Ceramic Slug-tuned Coil Form, 1/2x3/2", Copper Slug.....               | 3   | .96   |
| 72 H 131  | 69043 | A    | Ceramic Slug-tuned Coil Form, 1/2x3/2", Iron Slug.....                 | 3   | .84   |
| 72 H 084  | 69045 | B    | Ceramic Slug-tuned Coil Form, 1/2x1 1/4", Copper Slug.....             | 3   | 1.05  |
| 72 H 132  | 69046 | B    | Ceramic Slug-tuned Coil Form, 1/2x1 1/4", Iron Slug.....               | 3   | 1.05  |
| 72 H 133  | 69048 | *    | Ceramic Slug-tuned Coil Form, 3/4x3/4", Iron Slug.....                 | 3   | 1.05  |
| 72 H 669  | 69051 | E    | Ceramic Slug-tuned Coil Form, 3/4x3/4", Copper Slug.....               | 3   | .87   |
| 72 H 670  | 69052 | E    | Ceramic Slug-tuned Coil Form, 3/4x3/4", Iron Slug.....                 | 3   | .87   |
| 72 H 671  | 69055 | E    | Ceramic Slug-tuned Coil Form, 1/2x1 1/4", Copper Slug.....             | 3   | 1.05  |
| 72 H 672  | 69056 | E    | Ceramic Slug-tuned Coil Form, 1/2x1 1/4", Iron Slug.....               | 3   | 1.05  |
| 72 H 673  | 69057 | E    | Ceramic Slug-tuned Coil Form, 1/2x3/4", Copper Slug.....               | 3   | .87   |
| 72 H 674  | 69058 | E    | Ceramic Slug-tuned Coil Form, 1/2x3/4", Iron Slug.....                 | 3   | .87   |
| 72 H 675  | 69061 | E    | Ceramic Slug-tuned Coil Form, 3/4x3/4", Copper Slug.....               | 3   | .90   |
| 72 H 676  | 69062 | E    | Ceramic Slug-tuned Coil Form, 3/4x3/4", Iron Slug.....                 | 3   | .90   |
| 72 H 168  | 74400 | *    | Octal Base and Shield, 1 1/2x1 1/2x3 1/2", 1/4" dia.....               | 10  | 1.40  |
| 72 H 150  | 80042 | L    | Nicoloi Shield for 2AP1 and 2BP1 2" CR Tubes.....                      | 10  | 6.90  |
| 72 H 151  | 80043 | L    | Nicoloi Shield for use with either 3AP1, 3BP1 or 3DP1 3" CR Tubes..... | 10  | 9.70  |
| 72 H 157  | 80055 | *    | Nicoloi Shield for 5CP1.....                                           | 12  | 18.90 |
| 72 H 173  | 80072 | *    | Bezel, Cushion and Filter for 2" CR Tube.....                          | 4   | 1.80  |
| 72 H 154  | 80073 | *    | Bezel, Cushion and Filter for 3" CR Tube.....                          | 5   | 4.35  |
| 72 H 155  | 80075 | *    | Bezel, Cushion and Filter for 5" CR Tube.....                          | 7   | 8.40  |

### MULTI-SCALE DIALS



**M** Type 10035 Multi-Scale Dial. A deluxe-type illuminated slide-rule dial. Ideal for home-built Amateur receivers, VFO's, etc. Two built-in pilot lights provide even illumination over dial. Unit is self-contained. Large finger-grip knob control. Has 12 to 1 drive ratio. Has 4 blank scales for calibration and one 0-100 logging scale. Cardboard scale supplied can be used on both sides. Clear plastic dial window. Ample panel space for 2 small controls. 8 1/2x 6 1/2". Black finish. Shpg. wt. 2 1/2 lbs. 72 H 123. NET.....

**N** Type 10039 Midget Panel Dial. Economy model. Excellent for small transmitters, receivers and measurement equipment. Drive ratio is 8 to 1. Totally self-contained mechanism eliminates back-of-panel interference; quick, easy installation. Compact design. Has 5 blank scales for calibration and one 0-100 logging scale. Attractive black finish. Size, 4x3 1/4". Shpg. wt. 13 oz. 72 H 050. NET.....

7.26

3.24

### VARIABLE CAPACITORS



.045" air gap (1400 volts peak). 1/4" shaft. 14 turn. 1/8x 3/32 thread bushing. Shpg. wt. 5 oz.

| Stock No. | Mfr's Type | Max. Mmf | Min. Mmf | Overall Length | NET EACH |
|-----------|------------|----------|----------|----------------|----------|
| 72 H 030  | 20015      | 20       | 2.8      | 1 1/8"         | 1.77     |
| 72 H 044  | 20025      | 28.5     | 3.0      | 2 1/8"         | 1.86     |
| 72 H 032  | 20050      | 56       | 3.5      | 2 1/8"         | 2.04     |
| 72 H 033  | 20109      | 111      | 5.2      | 2 1/8"         | 2.43     |
| 72 H 045  | 21935*     | 39.5     | 6.7      | 3 1/8"         | 4.08     |

### 33087 TUBE BASE CLAMPS



Sturdily made, polished spring steel tube base clamps. Hold tubes in sockets and protect against damage from sudden jarring and shock. Excellent for use in mobile equipment and for reducing vibration of oscillator tubes. 2 oz.

| Stock No. | Type   | Diameter | EACH |
|-----------|--------|----------|------|
| 72 H 178  | 33087A | 1.125"   | 1.37 |
| 72 H 179  | 33087B | 1.375"   | 1.37 |
| 72 H 180  | 33087C | 1.250"   | 1.37 |
| 72 H 181  | 33087D | 1.275"   | 1.37 |
| 72 H 182  | 33087E | 1.375"   | 1.37 |

36c

### MINIATURIZED COUPLINGS



others are for 1/8"

| Stock No. | Type  | Description          | EACH |
|-----------|-------|----------------------|------|
| 72 H 170  | M003  | Solid brass coupling | 24c  |
| 72 H 172  | M006  | Univ. joint coupling | 24c  |
| 72 H 173  | M008  | Insulated coupling   | 24c  |
| 72 H 050  | 39003 | Solid brass coupling | 24c  |

For limited space use. M003 is brass. M006 (illustrated) is universal joint style made of nickel-plated brass with spring fingers. M008 is insulated coupling with brass inserts. 39003 is solid brass for 1/4" shafts. Av. shpg. wt. 2 oz.

### FLEXIBLE COUPLINGS



Popular 39000 Series flexible couplings. Provide higher flexibility, no backlash, high torque down voltages, small diameter and accurate alignment. 39000 is insulated universal joint. 39006 "slide-action" coupling for out-of-line or eccentric motion. 39005 (high torque) similar to 39000 but not insulated. Type 39016 (illus.) model as single unit for high resistance to shock, has solid insulating barrier diaphragm. All for 1/4" shafts except\* for 1/8" shaft. Shpg. wt., 2 oz.

| Stock No. | Type  | Description         | EACH |
|-----------|-------|---------------------|------|
| 72 H 034  | 39001 | Universal joint     | 48c  |
| 72 H 176  | 39002 | Fixed joint         | 48c  |
| 72 H 054  | 39005 | Universal joint     | 48c  |
| 72 H 054  | 39006 | Slide action        | 48c  |
| 72 H 171  | 39007 | 2" Coupling         | 63c  |
| 72 H 666  | 39017 | *Miniature of 39016 | 63c  |

### DRIVE MECHANISM



Type 10000 Worm Drive, ruggedly constructed drive mechanism offering a 10:1 step-down ratio. Cast-aluminum frame drilled for secure mounting on panel or chassis. Spring-loaded split shaft. 1/4" left and right-hand shafts. Size, 3x2x2 1/2". Shpg. wt., 6 oz. 72 H 173. NET.....

### MOLDED COIL FORMS



Type 45004. Molded-mica, phenolic base type coil forms. Four-prong type. For shortwave receivers and low power transmitters. Size: 1" diameter 1 1/2" winding length; 2 1/4" over all. Shpg. wt. 2 oz. 72 H 124. NET.....

Type 45005. Same as 45004, but has 5 prong. Shpg. wt. 2 oz. 72 H 125. NET.....

Type 45006. As above, without prongs. Same mounting. Shpg. wt. 2 oz. 72 H 126. NET.....

### INSTRUMENT DIAL



Type 10007. Handsome with accurate 0-100 clockwise scale spread over 180° of dial for direct calibration and high readability. Lends professional appearance to test instrument receivers, etc. Highly useful to engineers, Amateurs, experimenters, etc. Fits 1 1/2" black plastic knob. Dial 1 1/2" x 1 1/2". Shpg. wt. 3 oz. 72 H 667. NET.....

### MINIATURE KNOBS



Black plastic knobs with brass inserts for diameter shafts. Type A018 has screw slot in top. Overall height: A006, 1/2"; A018 and A019, 3/4". Av. shpg. wt., 4 oz.

| No.      | Type | Fig. | Size           |
|----------|------|------|----------------|
| 72 H 274 | A019 | P    | 1/2" dial dia. |
| 72 H 273 | A018 | R    | 3/4" dial dia. |
| 72 H 272 | A007 | S    | 1/2" dial dia. |
| 72 H 271 | A006 | T    | 1/2" dial dia. |





# Belden Wire and Cable

## VINYL-COVERED PLASTIC-INSULATED CABLE



Top-quality chrome vinyl jacketed intercom cable with multiple, non-paired, plastic insulated conductors. Especially suited for permanent installation of speakers, control and intercom circuits, as well as other applications requiring a highly durable, lightweight cable. Conductors are made of flexible, tinned copper stranded wire, with color-coded vinyl plastic insulation, all cabled together and enclosed in an overall chrome vinyl plastic jacket. Types shown with an \* have conductors which are all No. 18 stranded. Types shown with an † have two conductors of No. 18 stranded (16x30 wire); the other conductors are No. 22 stranded. Types shown with an ‡ have conductors which are all No. 18 stranded (16x30). All types are waterproof, are non-gaseous resistant, weather resistant, and tear resistant. Cables are flexible and easily stranded for use. Lengths under 100 ft. are available only in the spool sizes listed below.

| Mfr's Type | Cond. | 15 ft. Spool |          | 25 ft. Spool |          | 100 ft. Spool |          | Over 100 ft. |         |
|------------|-------|--------------|----------|--------------|----------|---------------|----------|--------------|---------|
|            |       | Stock No.    | NET EACH | Stock No.    | NET EACH | Stock No.     | NET EACH | Stock No.    | Per 100 |
| *8443      | 3     |              |          | 47 T 361     | .81      | 47 T 360      | 2.43     | 47 W 362     | 2.43    |
| *8444      | 4     |              |          | 47 T 371     | .96      | 47 T 370      | 2.94     | 47 W 372     | 2.94    |
| *8445      | 5     |              |          | 47 T 381     | 1.14     | 47 T 380      | 3.63     | 47 W 382     | 3.63    |
| *8446      | 6     | 47 T 31      | 1.03     |              |          | 47 T 310      | 5.29     | 47 W 312     | 5.29    |
| *8447      | 7     | 47 T 321     | 1.13     |              |          | 47 T 320      | 6.03     | 47 W 322     | 6.03    |
| *8448      | 8     | 47 T 331     | 1.27     |              |          | 47 T 330      | 6.27     | 47 W 332     | 6.27    |
| *8449      | 9     | 47 T 341     | 1.27     |              |          | 47 T 340      | 7.01     | 47 W 342     | 7.01    |
| *8450      | 10    |              |          |              |          | 48 T 222      | 6.91     | 48 W 223     | 6.91    |
| *8457      | 12    |              |          |              |          | 48 T 224      | 7.35     | 48 W 225     | 7.35    |
| *8465      | 5     |              |          |              |          | 48 T 226      | 5.88     | 48 W 228     | 5.88    |
| *8466      | 7     |              |          |              |          | 48 T 228      | 7.64     | 48 W 230     | 7.64    |
| *8469      | 9     |              |          |              |          | 48 T 232      | 10.00    | 48 W 233     | 10.00   |

## SHIELDED P.A. AND SOUND SYSTEM CABLE



Variety of gauges, insulations, shieldings and jackets for public address and intercom use. All have tinned copper conductors except 8799, enameled copper. †Insulated polyethylene insulated conductors, aluminum "Mylar" wrapped shield, stranded tinned copper ground wire. ‡Chrome vinyl jacket. §Spiral-wrapped tinned shield. †Braided tinned shield as jacket. †Vinyl insulated conductors. 8432 has rubber insulated conductors with cotton braid. 8799 has cotton wrap, braid. No. 22 stranded conductors 8761, 8762 (7x30). No. 20 stranded: 8432, 8433, 8791 (7x26), 8792 (7x28). No. 18 stranded: 8760, 8770 (16x30); 8789, 8790, 8791 (7x26). No. 18 solid: 8799. No. 16 stranded: 8779, 8780 (19x29).

| Stock No. | Mfr's Type | Cond. | O.D.  | Lbs. 100 ft. | PER FOOT | 100 Ft. For |
|-----------|------------|-------|-------|--------------|----------|-------------|
| 48 W 884  | 8432*      | 2     | .225" | 3 1/2        | 5 1/2    | 6.27        |
| 48 W 753  | 8760**     | 2     | .222" | 3 1/2        | 5 1/2    | 3.67        |
| 48 W 754  | 8761**     | 3     | .167" | 3 1/4        | 4 1/2    | 3.67        |
| 48 W 809  | 8762**     | 2     | .184" | 3            | 4        | 3.38        |
| 48 W 755  | 8770**     | 3     | .236" | 3            | 4        | 4.63        |
| 48 W 756  | 8771**     | 3     | .175" | 2            | 3 1/2    | 2.94        |
| 48 W 757  | 8772**     | 3     | .200" | 3            | 4 1/2    | 3.67        |
| 48 W 814  | 8779†      | 2     | .225" | 4 1/2        | 6        | 5.14        |
| 48 W 815  | 8780†      | 2     | .260" | 5            | 7        | 5.59        |
| 48 W 865  | 8789†      | 2     | .208" | 3            | 4        | 3.38        |
| 48 W 803  | 8790†      | 2     | .231" | 4            | 5        | 4.36        |
| 48 W 804  | 8791†      | 3     | .236" | 4 1/2        | 6        | 5.29        |
| 48 W 885  | 8799†      | 2     | .165" | 3            | 5        | 4.41        |

## UNSHIELDED P.A. AND SOUND SYSTEM CABLE

Quality unshielded cable for PA and intercom installations, speaker extension, alarm systems, etc. High insulation resistance and precision timing assure low-noise circuits free from cross-talk and interference. All have vinyl insulated, untinned conductors, except types indicated by † and ‡ which are tinned. All have outer jackets of chrome vinyl plastic, except 8481, 8482, 8460 and 8470 which are twisted pair types without jacket, except 8483 which is cabled and without jacket. †Solid copper conductors. ‡Stranded (7x26) conductors. †Stranded (19x29).

| Stock No. | Mfr's Type | Cond. | Wire Size | O.D.  | Lbs. 100 ft. | PER FOOT | 100 Ft. For |
|-----------|------------|-------|-----------|-------|--------------|----------|-------------|
| 48 W 758  | 8481*      | 2     | 22        | .112" | 1            | 1 1/2    | 1.25        |
| 48 W 878  | 8482*      | 2     | 19        | .115" | 1 1/2        | 2 1/2    | 1.51        |
| 48 W 879  | 8483*      | 2     | 19        | .132" | 1 1/2        | 2 1/2    | 1.96        |
| 48 W 879  | 8483*      | 2     | 19        | .162" | 2            | 3 1/2    | 2.06        |
| 48 W 806  | 8487*      | 3     | 19        | .180" | 2 1/2        | 3        | 2.60        |
| 48 W 816  | 8460†      | 2     | 18        | .175" | 1            | 2 1/2    | 2.20        |
| 48 W 817  | 8461†      | 2     | 18        | .195" | 3            | 4        | 3.09        |
| 48 W 818  | 8470†      | 2     | 16        | .195" | 2 3/4        | 3 1/2    | 2.79        |
| 48 W 819  | 8471†      | 2     | 16        | .256" | 3            | 4        | 3.38        |
| 48 W 234  | 8473†      | 2     | 14        | .332" | 6            | 6 1/2    | 5.55        |

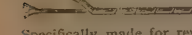
## 2-CONDUCTOR SHIELDED INTERCOM CABLE



All have vinyl plastic insulation, jackets; except 8738, 8758 have copper braid jackets. Tinned conductors. †Tinned copper spiral-wrapped shield. Black/red color coding. 8737 is No. 22 stranded (7x30); 8758, 8759 are No. 20 stranded (7x28); 8738, 8739 are No. 22 solid.

| Stock No. | Mfr's Type | O.D.  | Lbs. 100 ft. | PER FOOT | 100' or more, PER 100' |
|-----------|------------|-------|--------------|----------|------------------------|
| 48 W 877  | 8737*      | .170" | 2 1/4        | 4        | 3.33                   |
| 48 W 892  | 8738       | .130" | 2 1/4        | 3        | 2.50                   |
| 48 W 801  | 8758       | .163" | 2 1/4        | 3 1/2    | 2.94                   |
| 48 W 802  | 8759       | .195" | 2 1/4        | 3 1/2    | 2.94                   |
| 48 W 883  | 8739*      | .190" | 2 1/4        | 3 1/2    | 2.89                   |

## LITZ WIRE



Type 8817, 5x4 stranded copper Cename insulated with one nylon wrap. Specifically made for rewinding antenna primaries, hand-winding RF coils, IF coils, and similar radio frequency applications. Outside diameter: .008" 100 ft. spool. Shpg. wt. 2 oz.

48 T 981. NET.....29c

## 3 & 4-CONDUCTOR INTERCOM CABLE



Type 8734. No. 20 tinned, stranded copper (7x30) with plastic insulation. Chrome vinyl plastic shield overall. 0.194" O.D. Shpg. wt. 100 ft. 2 1/4 lbs.

48 W 875. PER FOOT.....4 1/2  
100 ft. or more, PER 100 FT.....3.4

Type 8763. No. 20 tinned, stranded copper (7x28) with polyethylene insulation. "Beldico" aluminum-Mylar shield over 2 conductors, conductor unshielded, 1 ground wire. Wt. 100 ft. 3 1/4 lbs.

49 W 840. PER FOOT.....4  
100 ft. or more, PER 100 FT.....4

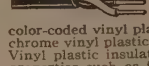
Type 8732. No. 22 tinned, stranded copper (7x30) with polyethylene insulation. 4 conductors: 1 pair tinned copper braid shield, pair unshielded. Chrome vinyl plastic jacket. Oval, .188" x .296" O.D. Wt., 100 ft., 3 lbs.

48 W 887. PER FOOT.....5 1/2  
100 ft. or more, PER 100 FT.....4

Type 8733. Has 3—No. 22 (7x30) conductors separately aluminum "Mylar" shielded. Ground tinned cadmium-bronze under "Beldico" foil, .135" O.D. 100 ft., 2 1/2 lbs.

48 W 235. PER FOOT.....4 1/2  
100 ft. or more, PER 100 FT.....3

## PAIRED VINYL-COVERED CABLE



For intercom and telephone wiring. No. 22 tinned copper except \*No. 22 stranded (7x30) with polyethylene insulation. Conductors cabled in twisted pair chrome vinyl plastic overall. Provide a quiet circuit, free from cross-talk and interference. Vinyl plastic insulation for high dielectric strength and best playing properties such as free stripping, small diameter and tear resistance.

| Stock No. | Mfr's Type | Conductors | O.D.  | Lbs. 100 ft. | PER FOOT | 100' or more, PER 100' |
|-----------|------------|------------|-------|--------------|----------|------------------------|
| 48 W 236  | 8442*      | 2          | .165" | 1 1/2        | 1 1/2    | 1.65                   |
| 48 W 890  | 8740       | 2          | .150" | 1 1/2        | 1 1/2    | 1.76                   |
| 48 W 891  | 8741       | 4          | .201" | 2 1/2        | 2 1/2    | 2.82                   |
| 48 W 892  | 8742       | 6          | .240" | 3            | 3        | 3.42                   |
| 48 W 759  | 8757       | 8          | .255" | 4            | 5        | 4.13                   |
| 48 W 893  | 8743       | 12         | .305" | 4 1/2        | 7        | 5.88                   |
| 48 W 894  | 8744       | 18         | .354" | 6 1/2        | 9 1/2    | 7.94                   |
| 48 W 898  | 8753       | 22         | .384" | 8            | 13       | 10.7                   |
| 48 W 845  | 8754       | 22         | .410" | 11           | 16       | 13.6                   |
| 48 W 895  | 8754       | 30         | .420" | 10           | 16       | 13.67                  |
| 49 W 846  | 8755       | 38         | .480" | 15           | 23       | 19.11                  |
| 49 W 847  | 8756       | 46         | .510" | 17 1/2       | 27       | 22.78                  |
| 48 W 896  | 8746       | 54         | .550" | 17           | 28       | 24.25                  |
| 48 W 776  | 8751       | 102        | .745" | 33           | 84       | 72.03                  |

## 2-CONDUCTOR BROADCAST AUDIO CABLE



ABC type 8436 has Celanese wrap, braid. Types 8437, 8441 have vinyl insulated conductors. Standard 8440 has enameled, cotton-wrapped, cotton-braid, conductors. Mutual 8445, 8451 have polypropylene insulated conductors, spiral-wrapped aluminum "Mylar" shield. Others have spiral-wrapped tinned shield except \*braided tinned shield. All have tinned drain wire, a black vinyl jacket except chrome vinyl jacket. All types have No. 22 conductors.

| Stock No. | Mfr's Type | Strand- | O.D.  | Lbs. 100 ft. | PER FOOT | 100 Ft. For |
|-----------|------------|---------|-------|--------------|----------|-------------|
| 48 W 859  | 8436       | Solid   | .180" | 2            | 5 1/2    | 4.67        |
| 48 W 886  | 8437*      | Solid   | .200" | 3 1/2        | 4 1/2    | 3.71        |
| 48 W 889  | 8440†      | 16x34   | .185" | 3            | 5 1/2    | 4.47        |
| 49 W 841  | 8441*      | Solid   | .210" | 3 1/2        | 5 1/2    | 4.47        |
| 49 W 373  | 8450       | Solid   | .180" | 1 1/2        | 3        | 2.50        |
| 49 W 374  | 8451       | 7x30    | .135" | 1 1/2        | 3 1/2    | 2.94        |



## STRAIN GAUGE CABLE

Small diameter, 4-conductor cables for microphones, etc. er supplies, etc. 8434 conductors are 3 strands tinned copper. 4 strands Copperweld, 8723 conductors are 7 strands tinned copper. Conductors polyethylene insulated inner pair are under one aluminum "Mylar" shield outer pair and drain wire under another; chrome vinyl jacket overall.

| Stock No. | Mfr's Type | Strand-  | O.D.  | Lbs. 100 ft. | PER FOOT | 100 Ft. For |
|-----------|------------|----------|-------|--------------|----------|-------------|
| 49 W 890  | 8434       | 25(7x33) | .169" | 1 1/2        | 5 1/2    | 4.59        |
| 48 W 237  | 8723       | 22(2x30) | .165" | 2 1/2        | 5 1/2    | 4.59        |

## CATHODE-RAY TUBE CABLE



High dielectric, corona resistant, minimum surface leakage CRT cables. No. 22 tinned copper, polyethylene insulated, 8868 has black vinyl jacket; rated 25,000 v. working; 50,000 v. breakdown. 8869 has black vinyl jacket; rated 17,000 v. working; 35,000 v. breakdown.

| Mfr's Type | Insulation | O.D.  | 25-ft. Spool | 100-ft. Spool | Wt. Lbs.     | Wt. Lbs. |
|------------|------------|-------|--------------|---------------|--------------|----------|
| 8868       | .065"      | .150" | 47 T 897 1/2 | .73           | 47 T 896 1/2 | 1 1/2    |
| 8869       | .029"      | .120" | 48 T 238 1/2 | .67           | 48 T 239 1/2 | 1 1/2    |

## RUBBER-COVERED LEAD-IN



Type 8200. Flexible No. 18 tinned copper wire, stranding (7x27), with .040" live rubber insulation. Overall diameter .126". Av. shpg. wt., 100-ft. spool, 1 1/2 lbs.

47T746, 500-ft. Spool NET 6.32. 47 T 745, 100-ft. Spool. NET 1.6



## 6A SRIR THERMOPLASTIC HOOK-UP WIRE

ty. thermoplastic insulated hook-up wire. 0.75 rms. Meet MIL specs. Have tinned conductors, .017" thick insulation. Available in: brown, red, orange, yellow, green, blue, gray, and white (except 852 and 852T, not in violet or gray). Specify color, Av. 25-ft. spool, 6 oz.; 100-ft. spool, 1 lb.; 500-ft. spool, 5 lbs.



## CELLULOSE ACETATE HOOK-UP WIRE

Single, tinned copper conductor, with heavy cellulose acetate yarn wrap and cellulose yarn braid. Ideal for RF circuits where low-loss properties are required. Has fungus and flame resistant lacquer coating. 1000 v. AC breakdown voltage. DC insulation resistance is 200 megohms/ft. Type 8943 is 10x30, Type 8947 is 16x30, Type 8942 is 26x30, Type 8938 is 41x30, Type 8941 has .072" O.D., Type 8943 has .076" O.D., Type 8945 has .080" O.D., Type 8947 has .087" O.D., Type 8942 has .099" O.D., Type 8938 has 115" O.D. Av. shpg. wt. per 100 ft.: no. 20, 1/2 lb.; no. 18, 1/2 lb.; no. 16, 1 lb.; no. 14, 1 1/2 lb. Only in lengths shown.



### 25-FOOT SPOOLS—SPECIFY COLOR

| o. | Mfr's Type | Size | Strands | O. D. | NET EACH |
|----|------------|------|---------|-------|----------|
| 14 | 8530       | 22   | Solid   | .059" | 35¢      |
| 16 | 8524       | 22   | 7x30    | .064" | 38¢      |
| 16 | 8529       | 20   | Solid   | .066" | 43¢      |
| 17 | 8523       | 20   | 10x30   | .070" | 47¢      |
| 19 | 8522       | 18   | 16x30   | .080" | 47¢      |

### 100 AND 1000-FOOT SPOOLS—SPECIFY COLOR

|         |       | 100' SPOOL |      |           | 1000' SPOOL |     |      |
|---------|-------|------------|------|-----------|-------------|-----|------|
| Strands | O. D. | No.        | EACH | No.       | EACH        | No. | EACH |
| 7x32    | .058" | 47 TT 244  | 1.03 | 47 TT 245 | 6.27        |     |      |
| Solid   | .059" | 47 TT 218  | .73  | 47 TT 222 | 4.41        |     |      |
| 7x30    | .064" | 47 TT 219  | .91  | 47 TT 223 | 5.73        |     |      |
| Solid   | .066" | 47 TT 220  | .94  | 47 TT 224 | 5.29        |     |      |
| 10x30   | .070" | 47 TT 221  | 1.03 | 47 TT 225 | 7.01        |     |      |
| 16x30   | .080" | 47 TT 110  | 1.12 | 47 TT 111 | 8.92        |     |      |
| Solid   | .074" | 47 TT 112  | 1.13 | 47 TT 113 | 7.35        |     |      |
| Solid   | .088" | 47 TT 246  | 1.32 | 47 TT 247 | 9.95        |     |      |
| 26x30   | .095" | 47 TT 114  | 1.55 | 47 TT 115 | 11.61       |     |      |
| 41x30   | .111" | 47 TT 116  | 1.99 | 47 TT 117 | 16.90       |     |      |
| 65x30   | .130" | 47 TT 118  | 2.79 | 47 TT 119 | 23.52       |     |      |

### ASSORTED WIRE KITS

1. Contains ten 25-ft. spools of Type 8943 strand hook-up wire and a convenient dispenser rack; black, blue, green, red, white, orange, brown, gray, and violet. Shpg. wt. .25 lb.

NET 3.31

4. Contains eight 25-ft. spools of hook-up wire and a dispenser rack; black, blue, green, red, white, orange, brown, gray, and violet. Shpg. wt. .25 lb.

NET 3.76



### POPULAR ANTENNA WIRE

Activity copper antenna wire. Ideal for rig and transmitting antenna requirements. Tensile strength assures minimum stretch. Insulation protects wire from corrosion. .017", per 100-ft. coil, 1 lb. Supplied only in lengths shown below.



### STRANDED BARE COPPER

| Type 8000—7x22 |       |     | Type 8002—7x24 |           |      |
|----------------|-------|-----|----------------|-----------|------|
| o.             | Spool | NET | Stock No.      | Spool     | NET  |
| 50 ft.         | .81   |     | 47 T 654       | 50 ft.    | .59  |
| 75 ft.         | 1.11  |     | 47 T 655       | 75 ft.    | .73  |
| 100 ft.        | 1.42  |     | 47 T 656       | 100 ft.   | .96  |
| 1,000 ft.      | 13.23 |     | 47 T 657       | 1,000 ft. | 8.82 |

### SOLID \*FORMAR-INSULATED COPPER

| Type 8008 No. 12 |       |     | Type 8009 No. 14 |         |      |
|------------------|-------|-----|------------------|---------|------|
| o.               | Spool | NET | Stock No.        | Spool   | NET  |
| 100 ft.          | 2.50  |     | 47 T 740         | 100 ft. | 1.70 |
| 200 ft.          | 4.56  |     | 47 T 742         | 200 ft. | 3.23 |
| 500 ft.          | 10.68 |     | 47 T 741         | 500 ft. | 7.20 |

### INDOOR AERIAL WIRE

Extra flexible. No. 25 stranded (13x36), tinned copper with chrome vinyl plastic insulation. O.D., .044". Shpg. wts.: 1 lb.; 2 oz.; 500-ft. spool, 2 lbs.

25-ft. spool. NET 37¢. 47 T 933, 500-ft. spool. NET 2.65

### HEAVY MAGNET WIRE

This heavy-duty Nylcad copper magnet wire has the most desirable features of Formvar: its toughness and solvent resistance of nylon. It is excellent for difficult and exacting windings. Outstanding features: withstands winding forming operations; resists solvent action of thinners; resists softening and brittleness at temperatures; infinite moisture resistance.



| 1/2 Lb. Spool |       |      | 1 Lb. Spool |      |       |
|---------------|-------|------|-------------|------|-------|
| Size          | Feet  | NET  | Size        | Feet | NET   |
| 14            | 40    | .67  | 48 T 086    | 14   | .80   |
| 16            | 63    | .67  | 48 T 087    | 16   | 1.15  |
| 18            | 100   | .67  | 48 T 088    | 18   | 1.19  |
| 20            | 157   | .67  | 48 T 089    | 20   | 1.22  |
| 22            | 250   | .71  | 48 T 090    | 22   | 1.28  |
| 24            | 396   | .75  | 48 T 091    | 24   | 1.35  |
| 26            | 630   | .81  | 48 T 092    | 26   | 1.49  |
| 28            | 995   | .88  | 48 T 093    | 28   | 1.90  |
| 30            | 1570  | 1.02 | 48 T 094    | 30   | 3.14  |
| 32            | 2440  | 1.09 | 48 T 095    | 32   | 4.88  |
| 34            | 3930  | 1.25 | 48 T 096    | 34   | 7.80  |
| 36            | 6200  | 1.55 | 48 T 097    | 36   | 12.40 |
| 38            | 9700  | 1.91 | 48 T 098    | 38   | 19.40 |
| 40            | 16050 | 2.75 | 48 T 099    | 40   | 32.10 |

| TYPE 8941—20 SOLID |          |          |          |          |          |       |  |  |  |
|--------------------|----------|----------|----------|----------|----------|-------|--|--|--|
| Spool              | Red      | Black    | Blue     | Green    | Yellow   | EACH  |  |  |  |
| 25 Ft.             | 48 T 331 | 48 T 330 | 48 T 332 | 48 T 333 | 48 T 334 | .62   |  |  |  |
| 100 Ft.            | 47 T 920 | 47 T 921 | 47 T 922 | 47 T 923 | 47 T 924 | 1.59  |  |  |  |
| 1000 Ft.           | 48 T 351 | 48 T 350 | 48 T 352 | 48 T 353 | 48 T 354 | 11.76 |  |  |  |

| TYPE 8943—20 STRANDED |          |          |          |          |          |       |  |  |  |
|-----------------------|----------|----------|----------|----------|----------|-------|--|--|--|
| 25 Ft.                | 48 T 361 | 48 T 360 | 48 T 362 | 48 T 363 | 48 T 364 | .62   |  |  |  |
| 100 Ft.               | 47 T 940 | 47 T 941 | 47 T 942 | 47 T 943 | 47 T 944 | 1.62  |  |  |  |
| 1000 Ft.              | 48 T 381 | 48 T 380 | 48 T 382 | 48 T 383 | 48 T 384 | 12.54 |  |  |  |

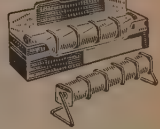
| TYPE 8945—18 SOLID |                |  |  |  | TYPE 8947—18 STRANDED |                |  |  |  |
|--------------------|----------------|--|--|--|-----------------------|----------------|--|--|--|
| 47 T 900, Red.     |                |  |  |  | 47 T 910, Red.        |                |  |  |  |
| 47 T 901, Black.   | 100-Ft. Spools |  |  |  | 47 T 911, Black.      | 100-Ft. Spools |  |  |  |
| 47 T 902, Blue.    | NET EACH 1.70  |  |  |  | 47 T 912, Blue.       | NET EACH 1.84  |  |  |  |
| 47 T 903, Green.   |                |  |  |  | 47 T 913, Green.      |                |  |  |  |
| 47 T 904, Yellow.  |                |  |  |  | 47 T 914, Yellow.     |                |  |  |  |

| TYPE 8942—16 STRANDED |                |  |  |  | TYPE 8938—14 STRANDED |                |  |  |  |
|-----------------------|----------------|--|--|--|-----------------------|----------------|--|--|--|
| 47 T 916, Black.      | 100-Ft. Spools |  |  |  | 47 T 935, Red.        | 100-Ft. Spools |  |  |  |
| 47 T 917, Red.        | NET EACH 2.16  |  |  |  | 47 T 936, Black.      | NET EACH 2.89  |  |  |  |
| 47 T 918, Green.      |                |  |  |  |                       |                |  |  |  |

### ASSORTED WIRE KITS

Type 8818. Contains eight 25-ft. spools of Type 8941 solid hook-up and lead wire. With dispenser. Colors: black, blue, green, red, white, yellow, orange and brown. 2 lbs. 4.94

Type 8820. Contains eight 25-ft. spools of Type 8943 stranded hook-up wire and dispenser. Same colors as above. Wt. 2 lbs. 4.94



### COILED MICROPHONE CABLES

Rugged coiled cables have tinned conductors, plastic jackets except "hasco" type. Has strain relief. Has braided shield. All 23 gauge except 124 gauge.



| Stock No. | Mfr's Type | Length  | Cond. | Wt. Lbs. | NET EACH |
|-----------|------------|---------|-------|----------|----------|
| 47 T 275  | 8415       | 11"     | 72"   | 4        | 3/4 1.13 |
| 47 T 276  | 18494      | 10"     | 54"   | 4        | 3/4 1.17 |
| 47 T 277  | 18495      | 10"     | 54"   | 3        | 3/4 .99  |
| 47 T 278  | 18496      | 11 1/2" | 72"   | 3        | 3/4 .99  |
| 47 T 279  | \$8497     | 11 1/2" | 72"   | 3        | 3/4 1.14 |
| 47 T 285  | 18498      | 7 1/2"  | 48"   | 1        | 3/4 .71  |
| 47 T 286  | \$8499     | 7 1/2"  | 48"   | 1        | 3/4 .73  |

### TEST PROD WIRE

Rubber-covered lead designed for use with test equipment. Made to withstand extremely high voltages. No. 18 conductor is 65x36 stranded tinned copper with cotton wrapping. Type 8898 has 230" O.D. and .088" rubber insulation, 10,000 v. working voltage, 29,000 v. puncture voltage. Type 8899 has 144" O.D. and .045" rubber insulation, 5000 v. working voltage, 20,000 v. puncture voltage. Shpg. wt. per 100 ft.: 8898, 4 lbs.; 8899, 2 lbs. Lengths under 100 ft. are available only in 10 and 25-ft. spools.

| TYPE 8898 |       |                      |      |  | TYPE 8899 |       |                      |      |  |
|-----------|-------|----------------------|------|--|-----------|-------|----------------------|------|--|
| Stock No. | Type  | Length               | Ea.  |  | Stock No. | Type  | Length               | Ea.  |  |
| 47 T 811  | Red   | 10 ft.spool          | .71  |  | 48 T 911  | Red   | 10 ft.spool          | .47  |  |
| 47 T 801  | Black | 10 ft.spool          | .71  |  | 48 T 901  | Black | 10 ft.spool          | .47  |  |
| 47 T 812  | Red   | 25 ft.spool          | 1.25 |  | 48 T 912  | Red   | 25 ft.spool          | .81  |  |
| 47 T 802  | Black | 25 ft.spool          | 1.25 |  | 48 T 902  | Black | 25 ft.spool          | .81  |  |
| 47 T 810  | Red   | 100 ft.spool         | 3.53 |  | 48 T 910  | Red   | 100 ft.spool         | 2.35 |  |
| 47 T 800  | Black | 100 ft.spool         | 3.53 |  | 48 T 900  | Black | 100 ft.spool         | 2.35 |  |
| 47 W 813  | Red   | (Over 100' PER 100') | 3.53 |  | 48 W 913  | Red   | (Over 100' PER 100') | 2.35 |  |
| 47 W 803  | Black | (Over 100' PER 100') | 3.53 |  | 48 W 903  | Black | (Over 100' PER 100') | 2.35 |  |

### COPPER BRAID SHIELDING AND BONDING CABLE

Flexible, braided and tinned copper for shielding conductors and cables. Useful for forming TVI-proof, metal-to-metal bonding. Braided in tubular form for easy slip-on installation over wiring. Av. shpg. wt. per 50 ft., 1 1/2 lbs. Lengths under 50 ft. available only in 10 ft. spools.

| Mfr's<br>Type | 10 ft. Spool |      | 50 ft. Spool |      | 100 ft. or more |         |
|---------------|--------------|------|--------------|------|-----------------|---------|
|               | Stock No.    | NET  | Stock No.    | NET  | Stock No.       | Per 100 |
| 8660          | 49 T 351     | .50  | 49 T 350     | 1.47 | 49 W 352        | 2.65    |
| 8668          | 49 T 356     | .68  | 49 T 355     | 2.02 | 49 W 357        | 3.53    |
| 8663          | 49 T 361     | .67  | 49 T 360     | 2.30 | 49 W 362        | 4.12    |
| 8661          | 49 T 366     | 1.18 | 49 T 365     | 5.05 | 49 W 367        | 9.76    |
| 8669          | 49 T 381     | 1.55 | 49 T 380     | 6.91 | 49 W 382        | 13.52   |
| 8662          | 49 T 842     | .59  | 49 T 843     | 1.86 | 49 W 844        | 3.23    |

# Coaxial Cable, Cords and Tubing

## AMPHENOL RG COAXIAL CABLE



Low-loss coaxial cable for RF applications. All meet rigid military and commercial specs. Have vinyl jacket and polyethylene dielectric except teflon dielectric. Teflon types operate at temperature ranges from -74 to +200° C., making them ideal for aircraft and guided missile applications. All are highly resistant to weather, acids, alkalis, and gasoline. Have low moisture absorption qualities.

| Stock No. | RG    | Imp. Ohms | Mmf Per Ft. | O.D.  | Lbs. 100' | 1-99 Ft. PER FT. | 100-499 Ft. PER FT. | 500-999 Ft. PER FT. |
|-----------|-------|-----------|-------------|-------|-----------|------------------|---------------------|---------------------|
| 49W 460   | 8/U   | 52        | 29.5        | .405" | 12        | .128             | .119                | .119                |
| 49W 315   | 8/U   | 52        | 29.5        | .405" | 12        | .142             | .132                | .132                |
| 49W 470   | 11/U  | 75        | 20.5        | .405" | 12        | .119             | .110                | .110                |
| 49W 306   | 17/U  | 52        | 29.5        | .870" | 47        | .637             | .583                | .525                |
| 49W 495   | 18/U  | 52        | 29.5        | .195" | 3         | .053             | .049                | .049                |
| 49W 487   | 58A/U | 50        | 28.5        | .195" | 3         | .053             | .049                | .049                |
| 49W 319   | 58C/U | 50        | 28.5        | .195" | 3         | .058             | .054                | .054                |
| 49W 490   | 59/U  | 73        | 21          | .242" | 4 1/2     | .055             | .051                | .051                |
| 49W 638   | 59B/U | 75        | 21          | .242" | 4         | .063             | .059                | .059                |
| 49W 488   | 62/U  | 75        | 18.5        | .242" | 4 1/2     | .058             | .054                | .054                |
| 49W 312   | 125/U | 50        | 10          | .405" | 12        | .142             | .130                | .130                |
| 49W 473   | 174/U | 50        | 30          | .100" | 2         | .052             | .048                | .048                |

| Stock No. | RG     | Imp. Ohms | Mmf Per Ft. | O.D.  | Lbs. 100' | 1-99 Ft. PER FT. | 100-249 Ft. PER FT. |
|-----------|--------|-----------|-------------|-------|-----------|------------------|---------------------|
| 49W 636   | 115A/U | 50        | 29.5        | .415" | 18        | 2.080            | 1.870               |
| 49W 640   | 178A/U | 50        | 29          | .075" | 1         | .240             | .220                |
| 49W 641   | 178A/U | 75        | 18.5        | .105" | 1         | .275             | .247                |
| 49W 642   | 180/U  | 93        | 15.5        | .141" | 1 1/2     | .430             | .390                |
| 49W 643   | 210/U  | 93        | 13.5        | .242" | 4         | 1.170            | 1.050               |

## "SUB-MINAX" MINIATURIZED COAXIAL CABLE

Type 21-597. Identical to full-size coaxial cable. Has polyethylene dielectric, vinyl jacket, braided copper shield, and stranded copperweld inner conductor. 7x.0056" construction. Imp. 75 ohms; capacitance, 20 mmf per ft. .150" O.D. Shpg. wt. 100', 1 1/2 lbs.  
49 W 472, 100-499 Ft., PER FT... .053 1-99 Ft., PER FT... .058

## POLYFOAM COAX AND MICROPHONE CABLE

Type 21-146 is microphone cable with polyethylene dielectric. Types 621-100, 621-111 and 621-715 are similar to types RG11/U, RG8/U and RG59/U respectively, but have polyfoam dielectric.

| Stock No. | Mfr's Type | Imp. Ohms | Mmf Per Ft. | O.D.  | Lbs. 100' | 1-99 Ft. PER FT. | 100-499 Ft. PER FT. |
|-----------|------------|-----------|-------------|-------|-----------|------------------|---------------------|
| 49 W 313  | 21-146     | 45        | 35          | .155" | 2         | .049             | .045                |
| 49 W 337  | 621-100    | 75        | 16.5        | .405" | 8         | .144             | .132                |
| 49 W 339  | 621-715    | 73        | 17          | .195" | 2         | .050             | .045                |
| 49 W 644  | 621-111    | 50        | 26.5        | .405" | 10.4      | .156             | .143                |

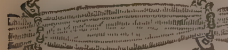
## BELDEN RG HIGH-FREQUENCY CABLE



All cables have low-loss, flexible, polyethylene plastic inner jacket, covered with copper braid shield. All have black vinyl plastic outer jacket overall, except RG-9/U has gray plastic jacket and silver plastic copper shielding. Impervious to acids, alkalis, oils and gasoline. RG-8/U and RG-9/U are medium-sized video and communications cable. RG-11/U is medium-sized 75-ohm video and communications cable. RG-58/U is ideal for radio-frequency transmission, video applications, test equipment, etc. \*Solid copper; others stranded. See connector section for cable connector listings.

| Stock No. | RG    | Mfr's Type | Imp. | Mmf/ft | O.D.  | Lbs. 100 ft. | PER FT. | 100 Ft. |
|-----------|-------|------------|------|--------|-------|--------------|---------|---------|
| 49 W 891  | 5A/U  | 8264       | 50   | 28.5   | .328" | 9.2          | 29c     | 24.91   |
| 49 W 511  | 8/U   | 8237       | 52   | 29.5   | .405" | 12           | 14c     | 12.15   |
| 49 W 512  | 8A/U  | 8267       | 50   | 28.5   | .405" | 11 3/4       | 17c     | 14.70   |
| 49 W 519  | 9/U   | 8242       | 51   | 30.0   | .420" | 13 3/4       | 34c     | 29.40   |
| 49 W 513  | 11/U  | 8238       | 75   | 20.5   | .405" | 11           | 13c     | 10.98   |
| 49 W 514  | 11A/U | 8261       | 75   | 20.5   | .405" | 10           | 17c     | 14.26   |
| 49 W 516  | 58/U  | 8240*      | 53.5 | 28.5   | .193" | 3 3/4        | 8 1/2c  | 4.85    |
| 49 W 517  | 58A/U | 8259       | 50   | 28.5   | .195" | 3 3/4        | 8c      | 4.95    |
| 49 W 595  | 58C/U | 8262       | 50   | 28.5   | .195" | 3            | 7c      | 5.88    |
| 49 W 552  | 59/U  | 8241*      | 73   | 21     | .240" | 4 3/4        | 9 3/4c  | 5.68    |
| 49 W 596  | 59B/U | 8263       | 75   | 20.5   | .6-6  | 4            | 6 1/2c  | 5.68    |
| 49 W 518  | 62/U  | 8254*      | 93   | 13.5   | .238" | 4            | 7 1/2c  | 6.03    |

## GENERAL-CEMENT CABLE TIES



Made of high dielectric polyethylene with 45 lb. tensile strength. Designed to withstand temperatures of up to +120° F. Each is 4 1/4" long. Will make neat, compact harnesses as large as one inch in diameter. Shpg. wt., 2 oz. 60 per pkg.

| Stock No. | Type   | Color | PER PKG. | Stock No. | Type   | Color  | PER PKG. |
|-----------|--------|-------|----------|-----------|--------|--------|----------|
| 49 T 142  | 34-432 | Red   | 61c      | 49 T 144  | 34-436 | Yellow | 61c      |
| 49 T 143  | 34-440 | Blue  | 61c      |           |        |        |          |

## STRANCO WIRE MARKERS

Flat Stran Code markers. Consist of 33 numerical markers (1/4x1 1/4") per card in numerical sequence from 1 through 33. On cloth or .003" soft aluminum. Pressure sensitive adhesive. Heat resistant. Card size: cloth, 2x9"; aluminum, 1 1/2x1 1/2". Shpg. wt., 3 oz.  
49 T 898, Cloth, 10-49, EACH... .24c 1-9, PER CARD... .28c  
49 T 899, Aluminum, 10-49, EACH... .25c 1-9, PER CARD... .29c

## CABLE LACING CORD

Waxed linen twine. Hard-twisting gray 8-cord; 50-lb. test. 1-lb. spool, 450 yds.; 1/2-lb. spool, 225 yds. Shpg. wt., 1 lb. spool, 1 1/2 lbs.; 1/2-lb. spool, 3/4 lb.  
49 T 245, 1-lb. Spool, NET... .318  
49 T 246, 1/2-lb. Spool, NET... .168

## NEW IRC POLYSTYRIP CABLEING



New concept in cableing. Only 1/100" thick! Consists of ribbon copper conductors laminated with transparent plastic into a thin, flat flexible cable. Perfect for PA and intercom installations. Lies under carpets, workbooks, etc. Type SE self-shielding insulation. Conductors equivalent to 28 gauge. 5 oz. per 100 ft.

| Stock No. | Mfr's Type | Cond. | Width  | 1-100 Ft. PER FT. | 101-1000 Ft. PER FT. |
|-----------|------------|-------|--------|-------------------|----------------------|
| 47 W 249  | P1003      | 3     | 2 1/4" | 18c               | 12c                  |
| 47 W 248  | P1005      | 5     | 5/8"   | 25c               | 20c                  |

## IRC TYPE 205 POLYSTYRIP CABLE KIT



This new professional cable installer's kit includes everything you need to quickly and easily make neat, workmanlike installations with new Polystyrip cable. Perfect for wiring PA systems, fire alarms, clock programming, music systems, remote controls, etc. Includes 75-ft. of 3 and 5-conductor Polystyrip cable that install behind surfaces, under carpets, behind moldings; six each 3 and 5-pin splicing type connectors for connection to ordinary cable; 2 and 5-pin wristlock type connectors. New spring-loaded, adjustable stripping tool removes insulation quickly, easily and neatly. Large 50-foot roll of double-back pressure tape lets you make fast, neat installations without wall studs. With instructions. Shpg. wt., 4 lbs.

47 T 605, NET... 27.

## THOMAS AND BETTS POLYSTYRIP CONNECTORS

3PWR

3PWA

5 indicates 5-terminal. Av. shpg. wt., 1/2 oz.

Versatile, solderless connectors of durable "Zyl" PWA types are for connecting round wire to flat conductive cable; mate with PWR which are wristlock self-terminating connectors. Prefix 3-Type no. indicates 3-terminal.

| Stock No. | Type | EACH | Stock No. | Type | EACH |
|-----------|------|------|-----------|------|------|
| 40 H 896  | 3PWR | 40c  | 40 H 898  | 3PWA | 28c  |
| 40 H 897  | 5PWR | 48c  | 40 H 899  | 5PWA | 28c  |

## ALPHLEX PVC-105 PLASTIC TUBING



Specify Color—In 25-Ft. Lengths

A wide selection of extruded plastic tubing for protection of wire and cable from effects of heat, oil, corrosion, fungi, and abrasion. Has excellent versatility and durability. Excellent high dielectric strength remains unaffected by increasing temperatures from -30° C. to 105° C. Conforms to military specifications MIL-631C, ASTM-D876, and ASTM-D922. Rated at v./mil.; resistance of over 1 million megohms. Tensile strength in PSI. \*Size indicates wire size tubing is designed to accept. Sizes 24-22 have .012 wall thickness; all other sizes have .016" wall thickness. Available in nine popular colors: clear, black, red, yellow, green, blue, brown, white, and orange—specify color of color. Av. shpg. wt., per 25 feet, 2 oz.

| *Size | Stock No. | NET | *Size | Stock No. | NET |
|-------|-----------|-----|-------|-----------|-----|
| 24    | 71 TT 300 | 76c | 16    | 71 TT 304 | 76c |
| 22    | 71 TT 302 | 76c | 14    | 71 TT 305 | 76c |
| 20    | 71 TT 303 | 79c | 12    | 71 TT 306 | 76c |

Same tubing as described above. Size 10 has .016" wall thickness. Other sizes have .020" wall thickness. Available in choice of six popular colors: clear, black, red, yellow, green, and white—specify color. Av. shpg. wt., 25 ft., 3 oz.

| 10 | 106* | 71 TT 314 <th>1.98</th> <th>4</th> <th>208*</th> <th>71 TT 317</th> | 1.98 | 4 | 208* | 71 TT 317 |
|----|------|---------------------------------------------------------------------|------|---|------|-----------|
| 8  | 133* | 71 TT 315 <th>1.21</th> <th>2</th> <th>263*</th> <th>71 TT 318</th> | 1.21 | 2 | 263* | 71 TT 318 |
| 6  | 166* | 71 TT 316 <th>1.38</th> <th></th> <th></th> <th></th>               | 1.38 |   |      |           |

Wall thicknesses; size 0, .020" \*\*.025" .030" .035" .040". Colors: clear or black—specify color. Av. shpg. wt., 25 ft., 1 1/2 lbs.

| 0    | .330* | 71 TT 324 <td>1.91</td> <td>3/4"</td> | 1.91 | 3/4" | .506* | 71 TT 327 |
|------|-------|---------------------------------------|------|------|-------|-----------|
| 5/8" | .312* | 71 TT 325 <td>2.20</td> <td>3/8"</td> | 2.20 | 3/8" | .625* | 71 TT 328 |
| 3/4" | .375* | 71 TT 326 <td>2.47</td> <td>3/4"</td> | 2.47 | 3/4" | .750* | 71 TT 329 |

## VARNISHED SPAGHETTI TUBING

ASSORTED 8" LENGTHS



Highly popular with experimenter builders. An assortment of 26 pieces vinyl & cambric spaghetti tubing in various sizes and diameters. Shpg. wt., 3 oz.  
49 T 220, 26-Piece Assortment.

NET... 27.

## SELECTION OF 36" LENGTHS

| 5 lengths to a package. 4,000 v. dielectric. Av. shpg. wt., 2 oz. |           |          |          |          |          |                 |  |
|-------------------------------------------------------------------|-----------|----------|----------|----------|----------|-----------------|--|
| For Wire Size                                                     | Stock No. |          |          |          | Per Pkg. | 50 Ft. Per Pkg. |  |
|                                                                   | Black     | Yellow   | Red      | Green    |          |                 |  |
| 20                                                                | 49 T 164  | 49 T 165 | 49 T 166 | 49 T 167 | 53c      | 48              |  |
| 18                                                                | 49 T 169  | 49 T 170 | 49 T 171 | 49 T 172 | 57c      | 53              |  |
| 16                                                                | 49 T 174  | 49 T 175 | 49 T 176 | 49 T 177 | 58c      | 53              |  |
| 14                                                                | 49 T 179  | 49 T 180 | 49 T 181 | 49 T 182 | 64c      | 59              |  |
| 12                                                                | 49 T 184  | 49 T 185 | 49 T 186 | 49 T 187 | 68c      | 63              |  |
| 10                                                                | 49 T 189  | 49 T 190 | 49 T 191 | 49 T 192 | 75c      | 68              |  |



## POSJ AND POT TYPE LAMP CORD

danted copper wire. POSJ has  
routers and heavy rubber jacket.  
vinyl insulation. Shpg. wt., 3 lbs.  
Lengths under 100 feet are  
only in 25-ft. coil.



| Color | 25 ft. Coil |     |          | 100 ft. Coil |          |      | Over 100 Ft. |          |  |
|-------|-------------|-----|----------|--------------|----------|------|--------------|----------|--|
|       | Stk. No.    | NET |          | Stk. No.     | NET      |      | Stk. No.     | PER 100' |  |
| own   | 48 T 761    | 732 | 48 T 760 | 2.70         | 48 W 763 | 2.70 |              |          |  |
| ack   | 48 T 771    | 732 | 48 T 770 | 2.70         | 48 W 773 | 2.70 |              |          |  |
| ay    | 48 T 781    | 732 | 48 T 782 | 2.70         | 48 W 783 | 2.70 |              |          |  |
| own   | 48 T 765    | 632 | 48 T 764 | 2.33         | 48 W 766 | 2.33 |              |          |  |
| hite  | 48 T 768    | 632 | 48 T 769 | 2.33         | 48 W 767 | 2.33 |              |          |  |
| ay    | 48 T 784    | 632 | 48 T 785 | 2.33         | 48 W 786 | 2.33 |              |          |  |

## TELEPHONE WIRE

tor Interior. For interior

telephones, intercoms, etc.

id, tinned copper wire. 1/2"

and glazed cotton braid. Wt., 100 ft., 2 1/2 lbs.

. PER FOOT. .44. 100 ft. or More, PER 100 FT. 3.73

tor Exterior. No. 22 solid tinned copper wire. Each conductor

insulation; overall black, weatherproof braid. Shpg. wt., 100

. PER FOOT. .44. 100 ft. or More, PER 100 FT. 3.38

tor Exterior. As above, but 3-cond. Wt., 100', 4 lbs.

. PER FOOT 5/8". 100 ft. or More, PER 100 FT. 5.08



## TWISTED-PAIR ANTENNA LEAD-IN

ty, twisted-pair antenna lead-in wire.

pecially for use with noise-reduc-

ing receiving antennas. Close imped-

ance assures efficient signal transfer. Consists of two flexible No.

ed-wire conductors with tough, long-life rubber insulation.

Weather-proof; does not crumble or dry out during prolonged

use. Wt., 100 ft., 3 lbs.

. PER FOOT 3/4". 100 ft. or More, PER 100 FT. 2.56



## ROME FLEXALL CABLE

ally sheathed waterproof and

at cable—designed specifically

in the earth. Has 2 No. 14

conductors insulated with Type T thermoplastic. An all-glass

cover covers both conductors and a synthetic plastic sheath covers

table. Ideal for outside lighting and speaker systems. Excellent

al feeders and branch circuits from house to garage or barn to

post or yard lights. Eliminates overhead wiring. Capacity

rated at 600 volts. U.L. Approved. Size, .200x.350". Shpg. wt.,

1 lb.

. PER FOOT. .9C 100 ft. or More, PER 100 FT. 8.52



## ROME ROFLX CABLE

actor cable for indoor or outdoor use.

ong speaker lines and electrical feed-

back circuits in power wiring. Also for

temporary or permanent extension power line installations for

major tools, etc. Color-coded No. 14 solid wire conductors have

heat resistant, thermoplastic insulation with plastic sheath

atire cable. Current capacity is 15 amps. Rated at 600 volts.

bved. Sizes, .200x.410". Shpg. wt., 100 ft., 7 lbs.

. PER FOOT. .7C 100 ft. or More, PER 100 FT. 6.23



## STEREO PICKUP ARM CABLES

ty phono pickup arm cables of ex-

cessibility. For record changers and

No. 32 stranded (7x40) copper con-

ductor vinyl plastic insulation. O.D.,

1/8" only light in weight, cables have minimum effect on stylus

and lateral arm movement. Types 1479, 1480, 1407, and

braided tinned copper shield for minimizing the possibility

of pickup. Av. shpg. wt.: 10 ft., 4 oz.; 25 ft., 6 oz.; 250 ft., 1 lb.



## UNSHIELDED WIRE

10-Ft. Coil

25-Ft. Coil

250-Ft. Coil

Stock No. NET

48 T 523 .32

48 T 526 .38

48 T 529 .53

48 T 524 .44

48 T 525 .50

48 T 528 .82

48 T 533 1.20

48 T 534 1.25

48 T 535 1.25

48 T 536 1.28

48 T 537 1.28

48 T 541 1.50

48 T 542 1.50

48 T 543 1.50

48 T 544 1.50

48 T 545 1.50

48 T 546 1.50

48 T 547 1.50

48 T 548 1.50

48 T 549 1.50

48 T 550 1.50

48 T 551 1.50

48 T 552 1.50

48 T 553 1.50

48 T 554 1.50

48 T 555 1.50

48 T 556 1.50

48 T 557 1.50

## SHIELDED WIRE

ally shielded conductors.

48 T 535 .45

48 T 538 .60

48 T 544 .60

48 T 547 .60

48 T 536 .45

48 T 539 .60

48 T 545 .60

48 T 548 .60

48 T 549 .60

48 T 550 .60

48 T 551 .60

48 T 552 .60

48 T 553 .60

48 T 554 .60

48 T 555 .60

48 T 556 .60

48 T 557 .60

48 T 558 .60

48 T 559 .60

48 T 560 .60

48 T 561 .60

48 T 562 .60

48 T 563 .60

## WIRE ASSORTMENTS

Calls. High efficiency, stranded cop-

some tinned, some untinned. Ideal

high conductivity with negligible loss

ll. Unusually flexible and durable. In

gases, colors and insulation. Designed

and sub-chassis wiring of radio and

receivers and transmitters as well as

types of electronic equipment. Resists

and heat. Shpg. wt., 1 lb.

. NET PER PKG. 79c



t. Calls. Kit includes wire in assorted gauges, insulations,

induced copper—tinned and untinned. Shpg. wt., 2 1/2 lbs.

. NET PER PKG. 2.25

## THERMOPLASTIC HOOK-UP WIRE

U.L. Approved. Voltage breakdown test, 10,000  
volts. Oil and acid resistant. Withstands tempera-  
tures up to 80° C. Suitable for high-voltage circuits  
where low loss and proper insulation is essential.  
Shpg. wt., per 25 ft. spool, 4 oz.



### 20 SOLID

48 T 455. Black. 25 FOOT

48 T 456. Red. SPOOL

48 T 457. Blue. 29c

48 T 458. Green. EACH

48 T 459. Yellow. EACH

### 20 STRANDED

48 T 460. Black. 25 FOOT

48 T 461. Red. SPOOL

48 T 462. Blue. 34c

48 T 463. Green. EACH

48 T 464. Yellow. EACH

## STRANDED HOOK-UP WIRE

No. 18 tinned soft-drawn copper wire. Cotton wrap and colored rubber  
insulation overall. Excellent for general wiring in radio-TV chassis,  
switchboards, etc. Shpg. wt., 25 ft., 5 oz.

| Spool  | Black    | Red      | Blue     | Green    | White    | EACH |
|--------|----------|----------|----------|----------|----------|------|
| 25 ft. | 48 T 200 | 48 T 201 | 48 T 202 | 48 T 203 | 48 T 205 | 48c  |

## PUSH-BACK HOOK-UP WIRE

Highest quality tinned push-back hook-up wire.  
No. 20. Only evenly-drawn pure copper wire is  
used. Insulation easily pushed back for con-  
venient wiring. Available in both solid and  
stranded type. Unusually flexible and durable.  
Double-cotton covered with paraffin-treated  
damp-proof braid. 5 different colors. Shpg.  
wts.: 25 ft., 4 oz.; 100 ft., 1 lb.



### STRANDED TYPE, 10x30

| Spool   | Red      | Black    | Yellow   | Blue     | Green    | EACH |
|---------|----------|----------|----------|----------|----------|------|
| 25 ft.  | 48 T 442 | 48 T 440 | 48 T 444 | 48 T 441 | 48 T 443 | .36  |
| 100 ft. | 48 T 447 | 48 T 445 | 48 T 449 | 48 T 446 | 48 T 448 | 1.29 |

### SOLID TYPE

| Spool   | Red      | Black    | Yellow   | Blue     | Green    | EACH |
|---------|----------|----------|----------|----------|----------|------|
| 25 ft.  | 48 T 472 | 48 T 470 | 48 T 474 | 48 T 471 | 48 T 473 | .34  |
| 100 ft. | 48 T 477 | 48 T 475 | 48 T 479 | 48 T 476 | 48 T 478 | 1.26 |

## HIGH-GRADE MAGNET WIRE ON SPOOLS

Insulated, soft-drawn copper wire of highest quality.  
Specially manufactured for all types of coil winding ap-  
plications—transformers, RF coils, chokes, etc. All  
sizes indicated below are standard B&S gauge. Shpg.  
wts.: 1/2 lb. spool, 14 oz.; 1 lb. spool, 1 1/2 lbs.



### PLAIN ENAMELED 1/2 LB. SPOOLS

| Stock No. | Size | Feet | NET | Stock No. | Size | Feet | NET |
|-----------|------|------|-----|-----------|------|------|-----|
| 48 T 100  | 14   | 38   | .60 | 48 T 111  | 26   | 640  | .71 |
| 48 T 102  | 16   | 63   | .60 | 48 T 112  | 28   | 1013 | .75 |
| 48 T 104  | 18   | 101  | .60 | 48 T 113  | 30   | 1602 | .83 |
| 48 T 106  | 20   | 159  | .62 | 48 T 114  | 32   | 2543 | .84 |
| 48 T 108  | 22   | 253  | .65 | 48 T 115  | 34   | 3402 | .92 |
| 48 T 109  | 24   | 402  | .65 | 48 T 116  | 36   | 4041 | .92 |

### SINGLE COTTON ENAMELED 1 LB. SPOOLS

|          |    |     |      |          |    |      |      |
|----------|----|-----|------|----------|----|------|------|
| 48 T 020 | 14 | 78  | 1.44 | 48 T 028 | 22 | 490  | 1.91 |
| 48 T 022 | 16 | 124 | 1.50 | 48 T 029 | 24 | 772  | 1.95 |
| 48 T 024 | 18 | 198 | 1.56 | 48 T 030 | 26 | 936  | 2.07 |
| 48 T 026 | 20 | 312 | 1.62 | 48 T 031 | 28 | 1209 | 2.19 |
| 48 T 028 | 22 | 402 | 1.70 | 48 T 032 | 30 | 1876 | 2.63 |
| 48 T 030 | 24 | 402 | 1.79 | 48 T 033 | 30 | 2780 | 3.08 |

## HEAVY FORMVAR MAGNET WIRE IN 1-LB. SPOOLS

Copper magnet wire covered with Formvar; tough, abrasion-resisting  
film. Stable dielectric under drying and aging effects of heat; does not  
fail after two hours at 105° C. Impervious to moisture and petroleum  
solvents; resists acid and alkali. Takes up less winding space. Replaces  
enamel, paper, cotton, silk, and double cotton and double silk wire. Wt.,  
per spool, 1 1/2 lbs.

| Stock No. | Size | Feet | NET  | Stock No. | Size | Feet   | NET  |
|-----------|------|------|------|-----------|------|--------|------|
| 48 T 180  | 14   | 78   | 1.13 | 48 T 187  | 28   | 1999   | 1.59 |
| 48 T 137  | 15   | 99   | 1.13 | 48 T 144  | 29   | 2780   | 1.77 |
| 48 T 181  | 16   | 124  | 1.13 | 48 T 188  | 30   | 3200   | 1.79 |
| 48 T 138  | 17   | 156  | 1.14 | 48 T 145  | 31   | 4410   | 2.03 |
| 48 T 182  | 18   | 198  | 1.14 | 48 T 189  | 32   | 4900   | 2.04 |
| 48 T 139  | 19   | 246  | 1.19 | 48 T 146  | 33   | 6441   | 2.16 |
| 48 T 183  | 20   | 313  | 1.20 | 48 T 190  | 34   | 7980   | 2.19 |
| 48 T 140  | 21   | 397  | 1.26 | 48 T 147  | 35   | 9002   | 2.51 |
| 48 T 184  | 22   | 501  | 1.26 | 48 T 191  | 36   | 12,800 | 2.54 |
| 48 T 141  | 23   | 628  | 1.34 | 48 T 148  | 37   | 15,898 | 3.45 |
| 48 T 185  | 24   | 798  | 1.34 | 48 T 192  | 38   | 20,000 | 3.51 |
| 48 T 142  | 25   | 941  | 1.43 | 48 T 149  | 39   | 25,188 | 3.57 |
| 48 T 186  | 26   | 1200 | 1.46 | 48 T 193  | 40   | 31,700 | 5.45 |
| 48 T 143  | 27   | 1583 | 1.56 |           |      |        |      |

## TINNED SOLID COPPER WIRE

Fine quality, soft-drawn copper wire, tinned for easy soldering. Excellent  
for circuit wiring. Av. shpg. wt.: 2 1/2 lbs., 15 lbs.

| Stock No. | Gauge | NET | Stock No. | Gauge | NET  |
|-----------|-------|-----|-----------|-------|------|
| 47 T 128  | 24    | .38 | 47 T 523  | 16    | 1.05 |
| 47 T 127  | 22    | .48 | 47 T 520  | 14    | 1.43 |
| 47 T 126  | 20    | .58 | 47 T 530  | 12    | 1.98 |
| 47 T 125  | 18    | .75 | 47 T 540  | 10    | 4.28 |

### 11000-FT. SPOOLS

# Electrical Cords and Accessories

## BELDEN EXTENSION AND REPLACEMENT CORDS



### LIGHT-DUTY CORDS

Flexible, rubber-covered replacement cords. Have unbreakable vinyl plastic plugs at one end, other end stripped. All are Fig. A, 2-conductor except \*Fig. B, 3-conductor with 1-prong plug. Cover black except brown, gray. U.L. Approved. Av. shpg. wt., 1/4 lb.

| Stock No. | Mfr's Type | Length | Gauge  | NET |
|-----------|------------|--------|--------|-----|
| 49 T 211  | 17126S     | 6 ft.  | SP1 18 | .37 |
| 49 T 236  | 17129S     | 9 ft.  | SP1 18 | .44 |
| 49 T 213  | 17303S     | 10 ft. | SJ 16  | .86 |
| 49 T 215  | 17308S     | 8 ft.  | SJ 18  | .65 |
| 49 T 212  | 17206S     | 6 ft.  | SJ 18  | .52 |
| 49 T 219  | 17408S     | 8 ft.  | SJ 18  | .88 |

### HEAVY-DUTY EXTENSION CORDS

Flexible 2-wire cord with molded vinyl cord-holder plug and plastic connector. Types 17395S and 17397S are ideal for electric lawn mowers, yard extensions. Cover: \*gray rubber, black rubber, \*red vinyl. U.L. Approved.

| Stock No. | Mfr's Type | Length | Gauge  | Lbs.  | NET  |
|-----------|------------|--------|--------|-------|------|
| 49 T 214  | 17270C*    | 20'    | SV 18  | 1     | 1.08 |
| 49 T 216  | 17361S*    | 10'    | SJ 16  | 1     | .94  |
| 49 T 217  | 17395S     | 50'    | SJT 16 | 3/4   | 3.68 |
| 49 T 218  | 17397S     | 100'   | SJT 16 | 6 1/2 | 6.98 |

### ELECTRICAL CORD VALUES

**H** 6-Ft. Replacement Cord Set. Heavy, plastic-insulated cord firmly secured in sturdy molded plug on one end; other end stripped. Brown. Shpg. wt., 8 oz.  
49 T 230, 10 or More, EA. 19c. EA... 21c

**J** 1T&T Tap Extension. 3-way extension tap. Rated at 15 amps 125 volts; 10 amps 250 volts. With 6-foot cord and bakelite plug cap. Brown. Shpg. wt., 7 oz.  
52 N 605, 10 or More, EA. 33c. EA... 37c



**K** Rubber Cube Tap Extension. An all-rubber, solderless, 3-way extension cord set. Consists of 9-ft. cord, unbreakable cube tap and plug. No. 18 wire. Spring action contacts in cube receptacle provide positive connection with plugs. Brown. Shpg. wt., 8 oz.  
52 N 608. NET... 59c

6-Ft. Extension. Same as above, but with 6-ft. cord. Brown. Shpg. wt., 6 oz.  
52 N 621. NET... 50c

## VALUES IN HANDY ELECTRICAL ACCESSORIES



**L** Rubber-Handle Plug. Unbreakable soft-rubber. Approved for power tools. Excellent for use with 52 N 603, right, below for line cord extensions. U.L. Approved. 2 oz.  
52 N 602. NET... 8c

**M** Parallel Ground Plug. Sturdy rubber handle plug with "U" ground. Small enough so that 2 will fit standard duplex receptacle. With cable clamp. U.L. Approved. 2 oz.  
52 N 717. NET... 38c

**N** Bakelite Plug. With convenient finger-grip. Cap size, 1 1/2 x 1 1/2 x 1 1/2" deep. Brown finish. U.L. Approved. Shpg. wt., 2 oz.  
52 N 600. NET... 8c

**P** Rubber Cube Tap. Spring-action, 3-way outlet of one-piece, soft rubber. U.L. Approved. Shpg. wt., 4 oz.  
52 N 609. NET... 22c

**R** Continental Adapter. Male-female adapter. Permits using standard flat-prong American plugs in Continental Europe outlets designed for round prongs. Wt., 2 oz.  
49 T 077. NET... 29c

**S** Academy Automatic Plug. No wire stripping. Just insert through cap. Sure-grip "needles" on prongs make positive connection through insulation. For POS cable only. U.L. Approved. Shpg. wt., 3 oz.  
52 N 607. NET... 12c

**T** Flat Rubber Plug. Has non-breakable rubber plug cap. Because of their narrow construction, these caps are ideal for use with multiple AC receptacles similar to Fig. X above. Easily disassembled. Screw terminal wiring. Rated 15 amps at 125 v.; 10 amps at 250 v. U.L. Approved. Shpg. wt., 3 oz.  
52 N 641. NET... 12c

**W** Morse Midget Cord Connector. Midget 2-contact pull-apart type cord connector. For use in connecting AC-DC line cords, phonograph motors, pilot light sockets, relays, control circuits, etc. Consist of one plug and one receptacle matching. Knurled edges provide sure grip for easy disconnection. Size, 1 1/4" long, 3/4" diameter. Shpg. wt., 2 oz.  
52 N 626, 10 or more, EA. 44c. EA... 49c

**X** Academy Three-Way Outlet. Standard 2-conductor outlets. Connect up to three standard power cord plugs. Easily installed. No wire stripping necessary. Rated 15 amps at 125 volts or 10 amps at 250 volts. U.L. Approved. Shpg. wt., 5 oz.  
52 N 622, Mahogany Plastic. NET... 20c  
52 N 619, White plastic. EACH... 20c

**Y** Rubber Line Cord Receptacle. Rubber pull-handle receptacle. Has knurled body for easier gripping. Cable clamp helps protect connections. Dia., 1 1/4". Rated 15 amps at 125 volts. U.L. Approved. Shpg. wt., 3 oz.  
52 N 603. NET... 26c

**BELDEN TV LINE CORD**  
Model 889S. long has 24 18-gauge braided vinyl cord, plug, 1 lb.  
47 T 298. NET...

**CONSOLIDATED WIRE POWER EXTENSION CORD**  
Heavy-duty, 3-prong power cord for use with tools, hedge trim, etc. Have molded prong plug at one 3-prong receptacle at other end. U.L. approved. Black.

| Stock No. | Length  | Gauge | Lbs.  |
|-----------|---------|-------|-------|
| 47 T 771  | 25 ft.  | 18    | 1 1/2 |
| 47 T 762  | 50 ft.  | 18    | 3     |
| 47 T 763  | 100 ft. | 18    | 6     |
| 47 T 764  | 25 ft.  | 16    | 2     |
| 47 T 765  | 50 ft.  | 16    | 4     |
| 47 T 766  | 100 ft. | 16    | 8     |
| 47 T 767  | 25 ft.  | 14    | 4     |
| 47 T 768  | 50 ft.  | 14    | 8     |
| 47 T 769  | 100 ft. | 14    | 15    |

**PEERLESS OUTLET BOXES**  
Model 1400. S controlled outlet box. Has light, 15-amp 115v. U.L. Approved components. 1 1/2 lb.  
52 N 663. NET... 0  
Model 600. Four outlet, individually controlled box. 115 v. U.L. approved components. 1 1/2 lb.  
52 N 674. NET... 0

**ELECTRICORD "REDY-AD"**  
Model 5C2216-6. Handy power cord on winding reel assembly. Turns 100 ft. of No. 12 conductor cord, with red vinyl insulation. Has stand of 3/4" cold plated steel rod; heavy reel, 1 lb.  
50 NX 301. NET... 8

**Y** Parallel Ground Rubber Receptacle. Solidly built 3-contact connector. phosphor bronze contacts rated 15 amps at volts. Cord hole is 3/8". Cord clamp is furnished to protect cord under heavy-duty use. Approved. Shpg. wt., 3 oz.  
52 N 718. NET... 3c

**AA** Parallel Ground Adapter. Adapts prong appliance plugs for use in standard prong AC outlets. 15 amps, 125 v. Has 3/4" with grounding lug. U.L. Approved. Shpg. wt., 3 oz.  
52 N 669. NET... 25

**BB** Plug Fuses. Screw-in plug fuses in standard fuse holders. Clear view to see when fuse has blown. U.L. Approved. Shpg. wt., 8 oz. 5 per box.  
52 B 170, 10 amps... 25  
52 B 171, 15 amps... 25  
52 B 172, 20 amps... 25  
52 B 173, 25 amps... 25  
52 B 174, 30 amps... 25

**CC** Fused Plug. Protects unfused electrical equipment from damaging overloads. Small fuses for each side of line fit snugly in cylindrical receptacles. Blown fuse is easily moved for quick replacement. Interchangeable with any standard AC plug. Supplied with cartridge fuses. (See index for fuse list.) U.L. Approved. Shpg. wt., 3 oz.  
52 N 648. NET... 25



# ALLIED OFFERS YOU MORE on PUBLIC ADDRESS Systems and Components

## CK THESE BUYING ADVANTAGES:

- Largest Selections
- Money-Back Guarantee
- System Savings
- Special Quantity Prices
- 1-Year Warranty On KNIGHT Equipment

## INTS ON SELECTING PUBLIC ADDRESS EQUIPMENT



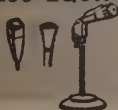
### FIRST SELECT THE SPEAKER

Selecting a P.A. System" below. First, you'll be able to determine the number and type of speakers required to meet particular needs. For special problems, or if not covered, contact our Audio Division for recommendations.



### ... NEXT SELECT THE AMPLIFIER

It's easy to determine the amplifier power required. For example, if you need 7 trumpet-type speakers, with 10 watts of power per trumpet, multiply 7 times 10. Power required is a minimum of 70 watts—in this case the Knight 75-watt amplifier would be a wise choice.



### ... THEN SELECT THE MICROPHONE

Any high-impedance dynamic or crystal mike in this Catalog will give excellent performance under nearly all conditions. Mike choice is primarily determined by intended use—see more detailed data below. For special cases, write to our Audio Division.

### SELECTING THE CORRECT P.A. SPEAKER

FOR QUIET INDOOR AREAS use cone-type speakers with wall or ceiling baffles. 8" speakers are most popular; use 12" units when more bass is needed. Wattage ratings show maximum power (volume) speakers can handle. Most offices need only 1 per speaker; warehouse or auditoriums may demand 10 watts. Do not use speakers in high-humidity areas.

PROSIVE VAPOR AREAS use a fiberglass Contact our Audio Division for free and submergence-proof, explosion-proof or special-application speakers.

MANY SPEAKERS TO USE? Most offices ceiling speakers spaced about 15 ft. Large indoor trumpets (about 15 each), should be 25-50 ft. apart. In areas, use small trumpets (about 5 at specific points to be covered.

FOR NOISY INDOOR AREAS & OUTDOORS use a trumpet-type speaker. Note: as trumpet horn-size increases, bass response and penetration power also increase, but dispersion angle decreases. Unless shown otherwise, trumpets require drivers. When an impedance-matching transformer is needed, use drivers with built-in transformers to simplify hookup (all drivers listed use screw terminals or binding posts).

IN OUTDOOR COVERAGE, weather and terrain are major factors. For spectator groups, place speakers near audience. For distant coverage ( $\frac{1}{4}$  to  $\frac{1}{2}$  mile), use 4 trumpets in a cluster.

USE TRANSFORMERS when extensive cable lengths, or more than 4 trumpets are used. Write for our free bulletin, "Multiple Speaker Installations."

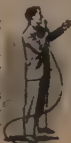
### SELECTING THE MICROPHONES

CRYSTAL mikes are inexpensive, have a wide response, but can be damaged by temperature extremes. CERAMIC mikes are similar, resist climatic changes. DYNAMIC are shock and weatherproof; have response; are ideal for P.A. use.

MIKE STANDS in this catalog all have standard  $\frac{3}{8}$ "-27 threaded fittings that will fit any mike or adapter. CONNECTORS are not supplied most mikes since amplifier input jacks see the Index for listings of Connector attach microphone cables to amplifiers and recorders.



back only. CARDIOID types pick up from front only; are excellent for P.A.



HIGH-IMPEDANCE mike inputs (most commonly used) handle up to 45-ft. cables; for cables over 45-ft., use a low-impedance mike and a matching transformer. Db ratings indicate relative mike sensitivity; since the numbers are negative, -50 db gives more output than -55 db.

## SYSTEM DISCOUNTS



SELECT YOUR  
OWN CUSTOM  
SYSTEM AT  
BIG SAVINGS

Use the data at left to help select the components for your particular application. Send your list to our Audio Division where experts will review it for proper matching—then we'll rush you a money-saving special system price.

## FREE CONSULTING SERVICE



If you wish, we'll plan a complete P.A. system for you—and you'll still get a system discount! Just tell us if surrounding noise will be low, average or high, and approximate audience size; send rough sketch of area and dimensions.

## INDEX of P.A. Equipment

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| Amplifiers        | 242, 243, 247-250 |
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| Telephone Systems | 261, 265          |
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## USE ALLIED'S NEW CREDIT FUND PLAN

Get the P. A. equipment you need, now—use Allied's new Credit Fund Plan. No money down—up to 24 months to pay—up to 50% more buying power.

Allied is Headquarters for Everything in P.A. Equipment


**KN**  
**3035**

## SPECIFICATIONS

**Response:**  $\pm 2$  db, 20-20,000 cps.  
**Inputs:** 3—Mic; 2—high-level Phono  
 1—Magnetic Phono.  
**Controls:** 3—Mic Vol.; 2—Phono Vol.  
 Bass; Treble; Master Vol.; Mic  
 Magnetic switch; On-Off; Meter  
 Selector; Hi-Low Impedance.  
**Outputs:** 4, 8, 16, 250, 500 ohms  
 and 70-Volt Tap  
**Tubes:** 2—6CA7; 12AU7; 3—  
 12AX7; 5U4GB rectifier.

**GUARANTEED 1 FULL YEAR**

**KNIGHT . . . in any P.A.**  
 application, is your assurance of  
 supremacy in performance and value!  
 Backed by quality-conscious  
 engineering, Knight P.A. amplifiers  
 feature careful assembly by skilled  
 craftsmen, rigid testing, and premium-  
 quality components. For example,  
 the use of more iron and copper in  
 the special output transformers gives  
 you better, cleaner sound. Because  
 of their superior design, all Knight  
 amplifiers are unconditionally  
 guaranteed for one full year—  
 including both parts and labor.

## Professional 35-WATT KN-3035

**\$12450**

**NO MONEY DOWN**

- Broadcast-Type Locking Connectors on All Mike Inputs
- Bass and Treble Controls—Master Volume Control
- Calibrated Output Meter For Instant Power Check
- 3 Mike, 3 Phono Inputs—Tape Output Jack

Gives you more in features and controls—and delivers a full 35 watts of  
 high-fidelity audio. "Plus" features include: full mixing of 3 mikes, plus  
 remote mixing facilities (below); sockets for plug-in low-impedance mike  
 transformers (below); 6-range output meter; separate tone controls; trunk  
 pet protector switch. Output tube balance and hum controls; tape output  
 jack; auxiliary AC outlet. Brushed-chrome panel,  $6\frac{1}{2} \times 17\frac{1}{2} \times 11$ ". U.L. Ap-  
 proved. Made in U.S. For 110-120 v., 60 cycle AC. 29 lbs.

35 DU 793. No Money Down. NET. . . . . 124.50  
 93 S 068. Plug-in Low-Impedance Transformer. Matches 50-600 ohm mikes  
 Shpg. wt., 1 lb. NET. . . . . 13.50  
 93 S 070. Remote Control Unit. For KN-3035 only. Operates up to 100 ft. away  
 Supplied with 50' cable.  $5\frac{1}{2} \times 2\frac{1}{2} \times 1$ ". 1  $\frac{1}{2}$  lbs. NET. . . . . 12.75  
 50 H 752. Broadcast-Type Elco EL2216-3 Mike Plug. 2 oz. NET. . . . . 9.00


**KN**  
**3225**

## ALL-TRANSISTOR

## 25 WATT Mobile Amplifier

**NEW LOW PRICE . . . \$7450 NO MONEY DOWN**

- Operates From Any 12-Volt Source
- Low Battery Drain—Only  $\frac{1}{4}$  Amp at Idling
- Extremely Compact—Lightweight Design

Ultra-modern, and now a better value than ever at its  
 new price, the KN-3225 6-transistor mobile P.A. ampli-  
 fier provides you with a full 25 watts of audio power  
 anywhere you go—by auto, truck or boat. Designed for  
 operation from any 12 v. DC source, its power cord  
 plugs into cigarette lighter receptacles. Efficient all-  
 transistorized circuit boasts an extremely low battery  
 drain—idling current is a negligible  $\frac{1}{4}$  amp. *Frequency*  
*Response:*  $\pm 3$  db, 100-10,000 cps. *Hum and Noise:* —67

db. **Inputs:** 1—Mic, 1—Phono. **Controls:** Mike Volume  
 Phono Volume, Tone, Master Volume, Off-On, Trunk  
 pet Protector switch. **Impedance:** 4, 8 and 16 ohms. Has  
 black cabinet and aluminum finish panel. Size, only  
 $3\frac{1}{2} \times 10\frac{1}{4} \times 6$ ". Guaranteed for one full year. Made in U.S.  
 Shpg. wt., 11 lbs.

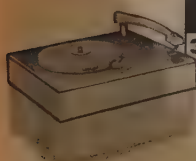
35 DU 796. No Money Down. NET. . . . . 74.50  
 35 DX 734. AC Power Supply. Converts KN-3225 for use  
 on 110-120 v., 50-60 cycle AC. 22 lbs. NET. . . . . 39.50

## PHONO TOP FOR KN-3225

**KN**  
**3200**

- Plays 3 Speeds
- Attaches in Just a Few Minutes

**MODEL KN-3200 PHONO TOP.**  
 Plays at 33 $\frac{1}{3}$ , 45 and 78 rpm.  
 Only a screwdriver needed to in-  
 stall. Shpg. wt., 5  $\frac{1}{2}$  lbs.  
 35 DU 797. NET. . . . . 39.95



**KNIGHT AMPLIFIER COVERAGE.** Figures are based on properly  
 located cone-type speakers in baffles. Double the figures  
 shown for P.A. systems employing driver-type sound  
 projects.

| Model No.        | Output, Watts | COVERAGE       |          |
|------------------|---------------|----------------|----------|
|                  |               | Area (Sq. Ft.) | Audience |
| KN-3010          | 10            | 5000           | 500      |
| KN-3016          | 16            | 10,000         | 2500     |
| KN-3035, KN-3036 | 35            | 50,000         | 10,000   |
| KN-3075          | 75            | 200,000        | 25,000   |



# Amplifier For Every P.A. Application

## NEW Standard 35-WATT KN-3036

### SPECIFICATIONS

Response:  $\pm 2$  db, 20-20,000 cps.  
 Inputs: 2—Mic; 2—high-level Phono.  
 Controls: 2—Mic; Phono Fader; Tone; Trumpet Protector; Off-On.  
 Impedance: 4, 8, 16 ohms; 25 & 70.7-volts.  
 Tubes: 6AV6; 2—6L6GC; 2—12AX7; rectifier.  
**GUARANTEED 1 FULL YEAR**

**KN**  
3036



**NET \$750**  
**NO MONEY DOWN**  
 No other comparably priced P.A. amplifier gives you the power, quality and features of the new, value-packed KN-3036! 70.7 and 25-volt outputs permit using up to 35 speakers. Other stand-out features: convenient front panel low-frequency filter switch to avoid trumpet burnout and feedback, Amphenol 75MCIF mike connectors. Ebony black case, aluminum panel. Made in U.S.  $6\frac{1}{2} \times 15\frac{1}{2} \times 11$ ". U.L. Approved. For 110-120 cycle AC. Shpg. wt., 28 lbs.  
**881. No Money Down. NET.....\$750**

**NO TOP.** For above. Plays all 4 speeds. Easily attached to KN-3036 with just a screwdriver and a few screws of your time. Shpg. wt., 4 lbs.  
**970. NET.....\$19.95**



### TWO MIKE INPUTS

Inputs for 2 microphones—with individual volume controls.



### HIGH-GAIN TUBES

Employs the latest, ruggedized high-gain tubes.



### PHONO-FADER CONTROL

Controls volume of either phono input with single knob.



## "Powerhouse" 75-WATT KN-3075



**GUARANTEED 1 FULL YEAR**

**NET \$879.50**  
**NO MONEY DOWN**

**KN**  
3075



Designed, this super-powered 75-watt amplifier is highly recommended for homes, plants, schools—wherever maximum coverage is essential. And the aid of the 75-watt booster (below), its high-power P.A. uses are unlimited! Features panel switch to prevent trumpet burnout and feedback, noise-free Amphenol 75MCIF mike connectors, wide range amp. Black case, white and aluminum panel. Made in U.S.  $7\frac{1}{4} \times 17\frac{1}{4} \times 11$ ". U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 39 lbs.  
**882. No Money Down. NET.....\$879.50**

**NO TOP.** For above. Plays all 4 speeds. Quick, easy attachment to the KN-3075 with just a screwdriver.  
 Shpg. wt., 4 lbs.  
**975. NET.....\$19.95**



### SPECIFICATIONS

Response:  $\pm 2$  db, 20-20,000 cps.  
 Inputs: 2—Mic; 2—high-level Phono.  
 Controls: 2—Mic; Phono Fader; Bass; Treble.  
 Trumpet Protector; Off-On.  
 Impedance: 4, 8, 16 ohms; 25 and 70.7-volts.  
 Tubes: 2—12AX7A; 6AV6; 2—6CA7; 5A54A; 5YEG-T rectifier.

## KN-3076 POWER-PACKED 75-WATT BOOSTER

Tap your existing P.A. power by a full 75 watts with this economical amplifier. Has same specs as KN-3075 above. Controls: Off-On, Treble, Bass, trumpet protector. For use with any amplifier delivering 10 or more to its speaker terminals. Made in U.S.  $7\frac{1}{4} \times 15 \times 8\frac{1}{2}$ ". U.L. Approved. Shpg. wt., 26 lbs.  
**883. No Money Down. NET.....\$69.50**

Provides  
75-Watt  
Boost in  
P.A. Power

**KN**  
3076



All Knight P.A. Equipment is Guaranteed for One Full Year



## Public Address Systems



**COVERS UP TO  
2000 PERSONS**



**COVERS UP TO  
2000 PERSONS**



## STANDARD P.A. SYSTEMS FEATURING KN-3036 AMPLIFIER

### KNIGHT Standard Portable System

NET

**\$124.50**

**NO MONEY DOWN**

- Complete With All Cables, Plugs, etc.
- Everything Packs in A Single Case
- Amplifier Guaranteed For 1 Full Year
- Save \$16.40 Over Cost of Individual Components Purchased Separately.

A complete, *one-case* 35-watt portable sound system that saves you \$16.40 over the cost of the individual components. Sets up in just a few moments; neatly packs away just as quickly. System includes: popular Knight KN-3036 35-Watt Amplifier; E-V 951 Crystal Cardioid Microphone; Atlas CS-33 Mike Floor Stand; Mike Cable; two Quam 12A10 12" P.A. Speakers with 25-Ft. Cables and Plugs. Speaker-amplifier carrying case separates into two individual baffles when opened; has attractive blue-green and ivory leatherette covering. 24x18½x12¼". For 110-120 v., 60 cycle AC. Shpg. wt., 71 lbs.

20 PA 726. No Money Down. NET.....124.50

20 PA 727. As above, plus 4 speed phono. NET...144.45

### KNIGHT Standard Indoor System

NET

**\$124.50**

**NO MONEY DOWN**

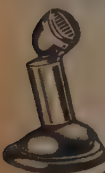
- Provision For Tuner, Changer, Etc.
- With Desk and Floor Mike Stands
- Heavy-Duty 12" Loudspeakers
- Save \$14.08 Over Cost of Individual Components Purchased Separately

Designed for medium-power applications—splendid for average-sized auditoriums or churches. System *price* saves you \$14.08 too. Includes: Knight KN-3036 35-Watt Amplifier; two Quam 12A10 12" Speakers installed in Argos DWB-12A Baffles; Shure 515 Dynamic Mike with 15-ft. Cord; Atlas CS-33 Mike Floor Stand and DS-7 Desk Stand. Knight amplifier provides for future plug-in expansion of system; tuner, tape recorder, etc., can be added any time. Walnut wood wall baffles harmonize with any decor. Less speaker cable. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 71 lbs.

20 PA 728. No Money Down. NET.....124.50

20 PA 729. As above, plus 4 speed phono. NET...144.45

**COVERS UP  
TO 2000 PERSONS**



## OUTDOOR PAGING SYSTEM FEATURING KN-3036

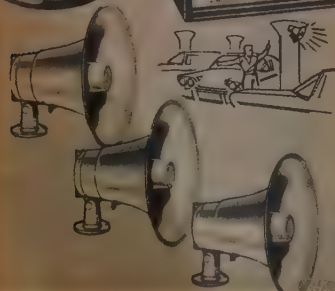
**IDEAL FOR LODGES, CAMPS, CLUBS**

NET

**\$124.50**

**NO MONEY DOWN**

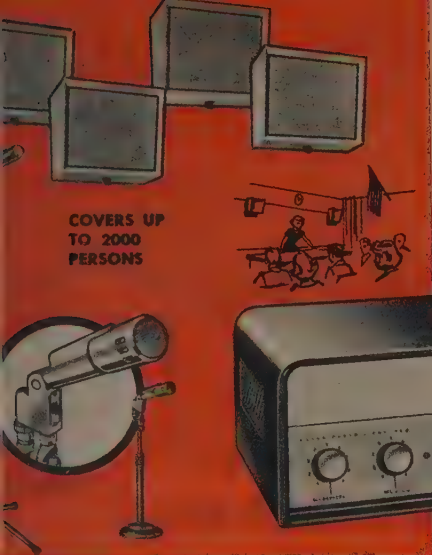
- Rugged, Weatherproof Speakers
- Blanket A Large Area
- Speakers Mount Easily Anywhere
- Knight Amplifier Guaranteed 1 Year
- System May Be Easily Expanded



An excellent value in a medium-power, outdoor paging system—suited for music too. The popular Knight amplifier will give many years of economical service, and is designed for easy system expansion in the future; has inputs for another mike, plus a tuner, and tape recorder or record changer. System includes: Knight KN-3036 35-Watt Amplifier; Shure 520SL Microphone on Stand; and three Knight KN-80 Paging Speakers. The re-entrant-type speakers are weatherproof and tropicalized; have a response of 250 to 13,000 cps for good reproduction. Shure microphone has convenient grip-to-talk, slide-to-lock switch bar; comes with 7-ft. cable. Best of all, Allied's system price gives you substantial savings over the cost of these same components purchased separately. Speakers have universal mounting bracket. Less speaker cable; see cable listings. For 110-120 volts, 60 cycle AC. Shpg. wt., 47 lbs.

20 PA 730. No Money Down. NET.....124.50





COVERS UP TO 2000 PERSONS

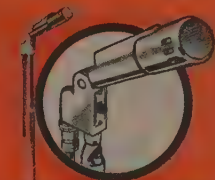


**KNIGHT**

Public Address Systems



COVERS UP TO 2000 PERSONS



## DELUXE 35-WATT P.A. SYSTEMS—INDOOR OR PORTABLE

### KNIGHT Deluxe Indoor System

- Ideal For Offices and Clinics
- Each Speaker has Volume Control
- Designed For Easy Hookup
- Easily Accommodates Extra Speakers
- System Price Saves You \$17.66

### KNIGHT Deluxe Portable System

- Complete—Nothing Else To Buy
- Sets Up In Just A Few Minutes
- Full-Range, Dynamic Cardioid Mike
- Big 12" Speakers Give Clean Sound
- System Price Saves You \$22.47

NET  
\$450  
No Money Down

NET  
\$159.95  
No Money Down

tailored by Allied to provide full-fidelity paging throughout offices, stores, institutions, etc., this deluxe system is well-suited for hundreds of P.A. applications. With quality and value, it saves you \$17.66 over retail cost of the individual components. The versatile Knight amplifier offers genuine high-fidelity reproduction, plus a full array of accessory inputs to distribution of low-level music if desired.

System includes: popular Knight KN-3036 35-Watt Amplifier; Utah 70.7-Volt Speaker-Baffle Combinations; Electro-Voice 664 Dynamic Microphone with 18-Ft. Cable; Atlas Mike Floor Stand and DS-7 Desk Stand.

Attractive wall baffles boast top-quality 8" Utah speakers plus pre-wired L-pad volume controls to permit adjusting each unit to the exact level required. E-V has a cardioid pickup pattern, highly desirable in any environment where ambient noise and reverberation exist. Simple instructions let you set-up this system with a minimum of time and effort. Extra speakers can readily be added to the system. Specify mahogany or blonde baffle. Less speaker cable. For 110-120 v., 60 cycle AC. Shpg. wt., 67 lbs.

731. Specify Finish. NET.....164.50  
732. As above, plus 4 speed phono. NET...184.45

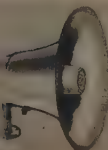
This is Allied's finest 35-watt portable P.A. system. Combining power with versatility, this audio distribution system covers 90% of all portable public address requirements—and our system price saves you \$22.47. Two perfectly balanced, compact carrying cases house the entire system, including speaker cable, making it easy to transport and set up in a jiffy—even for those without technical knowledge. Ideal for traveling dance bands desiring true hi-fi reproduction.

System includes: Knight KN-3036 35-Watt Amplifier and Case; E-V 664 Dynamic Mike with 18-Ft. Cable; Atlas CS-33 Mike Floor Stand; two Heavy-Duty Jensen 12" Speakers, each rated at 25 watts, installed in a Carrying Case that comes apart to form two separate baffles for the speakers within; 2—30' Speaker Cables with Plugs.

Dynamic mike features a response of 40-15,000 cps for marvelous reproduction of music; has cardioid pattern to minimize extraneous noise pickup and permit performers to work twice as far from the mike. Contrasting off-white speaker case is 20x16x13 3/4"; charcoal amplifier case is 12x16 1/2x9 1/4". For 110-120 v., 60 cycle AC. Shpg. wt., 71 lbs.

20 PA 733. No Money Down. NET.....159.95  
20 PA 734. As above, plus 4 speed phono. NET...179.90

### ADD-ON SPEAKERS FOR INDOOR SYSTEMS



**KNIGHT PAGING SPEAKER.** Reflex-type unit with built-in 25-watt driver. 250-13,000 cps. 90° dispersion. 9x10 1/4" dia. Wt., 4 lbs.

70 DX 387. NET.....15.50

**DELUXE UTAH SPEAKER-BAFFLE.** With 8" speaker, volume control, 70.7-v. transformer. Specify mahogany or blonde. 9 1/2x12x6". 7 lbs.

90 DX 073C. NET.....15.95



Write to Allied for P.A. System Price Quotation on Components of Your Choice



## P.A. SYSTEMS

Chimes or  
Carillons  
With Electronics



Background Music  
For Industry  
and Offices



## Sound Systems Featuring the All NEW KNIGHT KN-3075

### 75-WATT CHURCH TOWER SYSTEM

NET

**\$289<sup>50</sup>**

NO MONEY DOWN

- Covers Up to 2 Square Miles
- Quality Reproduction of Carillon Records
- Hear the Full, Rich Fidelity of Chimes
- Offers Tremendous Versatility for Church Systems

This magnificent 75-watt system was designed to meet the requirements of churches and religious institutions for quality sound reproduction outdoors. Now, you can surround your church and fill your community with the beauty of chimes or carillons as recorded at famous churches and shrines. A truly deluxe sound system capable of full-frequency reproduction at high power levels.

Save \$29.00 over the total cost of the individual components when purchased separately. This matched system includes: Knight KN-3075 75-watt Amplifier; 4—EV 848 CDP Projectors; Webcor 1041-51 4-Speed Changer with Metal Base and Efficient Cartridge. Less speaker cable.

The powerful new KN-3075 amplifier is recommended wherever maximum coverage is necessary. The Electro-Voice 30-watt coaxial projectors in this system are virtually indestructible. Fabricated of weather-proof mesa-tan fiberglass and polyester resin. The Webcor record changer and cartridge is an excellent combination for high-fidelity sound from any disc recording. These outstanding components in this system will provide you with one of the finest systems available for church towers or any outdoor application. Ruggedly constructed and engineered for dependable service. For 110-120 volts, 60 cycle AC. Made in U.S. Shpg. wt., 114 lbs.

20 PA 744. System Savings \$29.00. NET.....289.50

### 75-WATT INDOOR P.A. SYSTEM

NET

**\$194<sup>50</sup>**

NO MONEY DOWN

- High Power For Noisy Locations
- Paging System for Offices
- Distinctively Styled Enclosures
- Fills the Need for Any Sound Job

Expertly designed to give you the most for your P.A. dollar, this 75-watt system is recommended for stadiums, plants, schools, offices, restaurants—wherever maximum coverage is necessary. There's hardly a sound job it cannot do! A splendid choice for quality reproduction in large areas.

Save \$15.61 over the total cost of individual components. This matched system includes: Knight KN-3075 75-Watt Amplifier; 6 Utah Speaker-Baffle Combinations in choice of Mahogany or Blonde finish—specify; Shure 520-SL Microphone. Less speaker cable.

The outstanding new KN-3075 75-watt amplifier is designed to give you quality and years of reliable service. The 6—70.7 volt speaker systems included in this system are tastefully styled to blend with modern decors. The volume of each unit may be adjusted at the speaker itself, permitting each unit to operate at the exact level required. The 70.7-volt arrangement is ideal for long speaker cables. The components in this system are designed to give you one of the finest indoor systems available—at big savings. For 110-120 v., 60 cycle AC. Made in U.S. Shpg. wt., 88 lbs.  
20 PA 742. System Savings \$15.61. NET.....194.50  
20 PA 743. System With Phono Top. As above, but with 4-speed player mounted atop amplifier. 91 lbs. NET.....214.45

## Mobile System Featuring 25 Watt KN-3225

### COMPLETELY TRANSISTORIZED

NET

**\$179<sup>50</sup>**

NO MONEY DOWN

- Low Battery Drain—Idling Current of Only 1/4 Ampere
- Quickly Plugs in to Cigarette Lighter Receptacle
- Compactly Designed for Limited-Space Applications

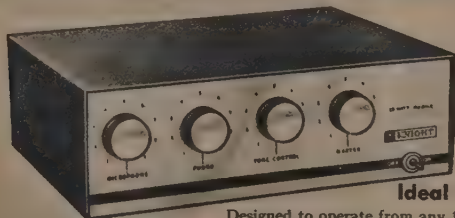
### Ideal For Boats—Cars—Trucks

Designed to operate from any 12-volt DC source, the "Electioneer" P.A. sound system is perfect for political campaigning, sales demonstrations, advertising promotions, or any other outdoor sound system application. System price saves you \$25.83 over total cost of individual units purchased separately. System includes: Knight KN-3225 Transistorized 25-watt Mobile Amplifier; two Electro-Voice 848-CDP Fiberglass Diffraction Projectors; Electro-Voice 602 Dynamic Microphone; plus 50-ft. Speaker Cable and plugs. Made in U.S. Shpg. wt., 52 lbs.  
20 PA 741. No Money Down. NET.....179.50

SYSTEM WITH PHONO TOP. As above, but with 4-speed player atop amplifier. 58 lbs.  
20 PA 745. NET.....219.45

WOOD CAR-TOP SPEAKER PLATFORM. (Not illus.) For mounting baffles or horns with bases up to 8" in diameter. Quickly, easily installed—fits any car roof. 7 1/2 x 46". Wt., 9 lbs.  
93 DX 220. NET.....6.45

All Knight P. A. Equipment is Guaranteed for One Full Year



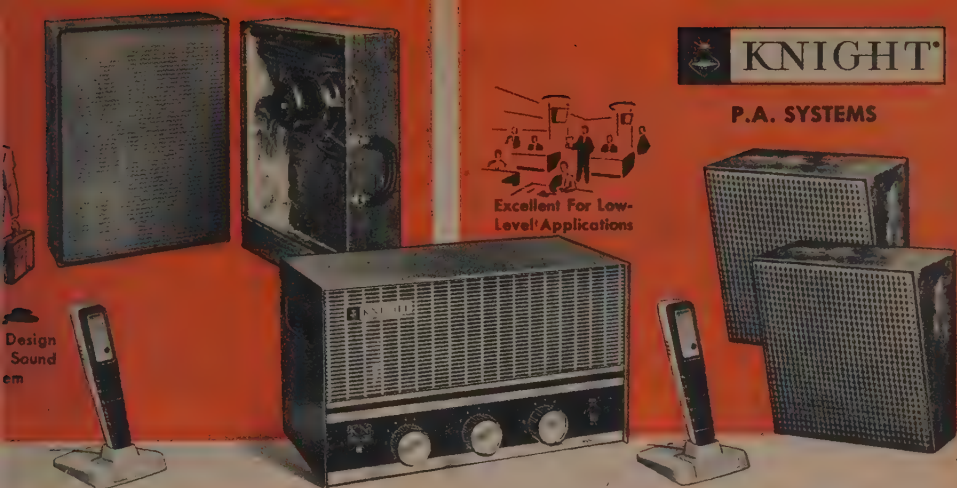


# KNIGHT

## P.A. SYSTEMS



Excellent For Low-Level Applications



### Low-Cost Sound Systems Featuring the KNIGHT KN-3010 Amplifier

#### 10-WATT PORTABLE SOUND SYSTEM

- NET \$66.45**
- Compact, Lightweight Portable P.A.
  - All Gear Packs in a Single Case
  - Excellent for Indoor Sports Events
  - Big Sound from a Little Package
- NO MONEY DOWN**

Designed to provide low-level, full-fidelity sound reproduction for events. Ideal for auctioneers, sales demonstrations, sports etc. Here is truly a portable system—lightweight, but with sound for small audiences. Sturdy carrying case contains complete system, including speaker cable; can be set up by anyone in a few moments.

Includes: Knight KN-3010 10-Watt Amplifier; Electro-Voice 727 Dynamic Mike supplied with Desk Stand; Heavy-Duty 8" Speaker; Speaker Cable; and a sturdy combination Baffle-Carrying Case. Operation from 110-120 volts, 60-cycle AC. Made in U.S. Shpg. wt., 30 lbs.

736. System Savings \$4.85. NET.....**66.45**

#### INDOOR 10-WATT SOUND SYSTEM

- NET \$65.95**
- Especially Suited for Quiet Areas
  - Heavy-Duty 8" Speakers
  - Highly Dependable Operation
  - Styled to Match Modern Decors
- NO MONEY DOWN**

Designed to provide pleasing, high-quality reproduction throughout offices, stores, medical centers, dining rooms, halls, etc. This is an ideal system for quiet areas. Quickly, easily installed for years of dependable service—handy screw terminals greatly simplify installation—no soldering necessary. Compact, lightweight amplifier can be placed almost anywhere.

System includes: Knight KN-3010 10-Watt Amplifier; E-V 727 All-Directional Mike supplied with Desk Stand, Cable and Plug; two Heavy-Duty 8" Speakers; 50' of Speaker Cable; and two Argos DWB-8A Baffles in Walnut or Blonde finish—specify choice of finish. For operation from 110-120 v., 60 cycle AC. Made in U.S. Shpg. wt., 27 lbs.

20 PA 735. System Savings \$4.16. NET.....**65.95**

#### KN-3010 10-WATT PA AMPLIFIER ONLY

- NET \$29.95**
- NO MONEY DOWN**
- Compact amplifier that's ideal for use in low noise-level areas. Excellent for carnivals, bazaars, sales demonstrations and auctions, etc. Engineered to deliver smooth, clear reproduction of speech and music. Tape output jack for direct recording. Frequency response,  $\pm 2$  db, 70-10,000 cps. Single mike input; single phono input accepts any crystal or

ceramic phono cartridge, radio tuner or tape recorder. Controls: Mike volume, phono volume and tone. Output impedances, 4, 8, 16, 500 ohms and 70.7-volt. Styled in charcoal and aluminum.  $6\frac{1}{2} \times 10 \times 5\frac{1}{4}$ ". For operation from 110-120 v., 50-60 cycle AC. Made in U.S. Shpg. wt., 12 lbs.

35 DX 788. No Money Down. NET.....**29.95**

### att Sound Systems Featuring KN-3016 Amplifier

**LE SYSTEM.** Top quality, reliable sound coverage wherever you want it. Includes: Knight KN-3016 Amplifier; two Quam Heavy-Duty 12" Speakers; KN-4500 All-Directional Dynamic Microphone with Desk Stand; CS-33 Microphone Floor Stand; Knight Combination Speaker Case; and 50-ft. Speaker Cable. Case separates into 2 for 110-120 v., 60 cycle AC. Made in U.S. 61 lbs.

739. System Savings \$11.84. NET.....**109.95**

**WITH RECORD PLAYER INSTALLED.** Shpg. wt., 64 lbs.

740. System Savings \$11.84. NET.....**129.90**

#### KN-3016 16-WATT AMPLIFIER ONLY

Dependable performer! 30-15,000 cps. Mike and two phono inputs. Outputs: 4, 8, 16, 250 and 500 ohms, plus 70.7-volt. Size,  $6\frac{1}{2} \times 15\frac{1}{2} \times 11$ ". For 110-120 v., 60 cycle AC. Shpg. wt., 25 lbs.

DU 789. No Money Down. NET.....**44.95**

3116. Above, but with phono installed. Wt., 28 lbs.

DU 790. No Money Down. NET.....**64.90**

**R SYSTEM.** Perfect for medium-size areas. Includes: Knight KN-3016 Amplifier; two Quam Heavy-Duty 12" Speakers; Knight KN-4500 All-Directional Dynamic Microphone with Desk Stand; two Argos DWB-8A Baffles in Walnut or Blonde—specify finish. 50' Speaker Cable. For 110-120 v., 60 cycle AC. Made in U.S. 47 lbs.

737. System Savings \$10.41. NET.....**99.95**

**WITH RECORD PLAYER INSTALLED.** Made in U.S. 50 lbs.

738. System Savings \$10.41. NET.....**119.90**



# Bogen

## Budget-Priced and Deluxe Public Address

### Bogen CHALLENGER Series

Economy-priced line of Bogen amplifiers for almost every P.A. application—excellent performance, beautifully decorator-styled.

Model CHA75A  
75-Watt Amplifier



Model CHA33Y  
33-Watt Amplifier



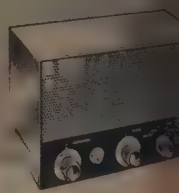
Model CHA20Y.  
20-Watt Amplifier



Model CHA620Y 20-Watt  
Mobile Amplifier



Model CHA10  
10-Watt Amplifier



#### CHA75A 75-WATT AMPLIFIER

- Powerful, Push-Pull Output Circuit
- Separate Inputs for Two Microphones, Plus Input for Phonograph
- Separate Bass and Treble Controls

For use in applications where a high-power P.A. amplifier is required, the ruggedly designed CHA75A features high-gain circuit design with excellent specifications and performance. Has negative voltage feedback circuit for better response, lower distortion and superb regulation. Wide-range response:  $\pm 2$  db, 20 to 20,000 cps. Provided with separate input channels for two microphones and a phonograph, with individual controls for each mike and phono, plus separate bass and treble tone controls. **Power Output:** 75 watts; peak power, 85 watts. **Gain:** Microphone, 120 db; Phono, 85 db. **Hum & Noise:** 70 db below rated output. **Output Impedances:** 4, 8, 16, 65 ohms; 70-volt line, balanced 25-volt line.

Employs 8 tubes; three 6Z34 rectifiers. Takes Amphenol 75 MC1F mike connectors; Plug-in connector for speaker line. Case in tan with black panels. Size,  $6\frac{1}{2} \times 17\frac{1}{2} \times 12\frac{1}{2}$ ". For 117 v., 60 cycle AC. Shpg. wt., 34 lbs. **No Money Down.**  
88 SU 865. NET. ....105.00

#### CHA33 33-WATT AMPLIFIER

- Push-Pull Audio Output Circuit with Negative Feedback Feature
- 2 Mike Inputs with Individual Controls
- Separate Bass and Treble Controls

Designed for all medium-power P.A. applications, the dependable, low-cost CHA33 amplifier is an excellent value. It can be used in outdoor or indoor P.A. systems, and its trouble-free operation recommends it for use in portable P.A. systems. Separate gain controls for each channel permit blending or mixing of all inputs, while separate bass and treble controls permit continuous variation of tonal balance. Response, 30 to 15,000 cps,  $\pm 2$  db. **Power Output:** 33 watts; peak power, 36 watts. **Gain:** Mic, 120 db; Phono, 83 db. **Hum & Noise:** 75 db below rated output. **Inputs:** 2 microphone, 1 phonograph. **Output Impedances:** 4, 8, 16 and 150 ohms; 70-volt line. Takes Amphenol 75MC1F mike connectors. 5 tubes; two 5V3GT rectifiers. U.L. Approved. Tan and black styling. Size,  $6\frac{1}{2} \times 14\frac{1}{2} \times 8\frac{1}{2}$ ". For 117 v., 60 cycle AC. Shpg. wt., 22 lbs.  
88 SU 863. NET. ....69.00

Model CHA33Y. Same amplifier as above, but with built-in 3-speed phono top and turnover ceramic cartridge with dual sapphire needles. Wt., 25 lbs.  
88 SU 864. NET. ....87.90

#### CHA20 20-WATT AMPLIFIER

- Has Inputs for Mike and Phonograph
- Separate Bass and Treble Controls
- Volume Control for Each Channel for Blending of Both Inputs

Offers the same styling and design features as the higher-powered "Challenger" amplifiers; unexcelled for use in indoor P.A. applications requiring 20 watts of power. The CHA20 features: wide response of 30 to 15,000 cps,  $\pm 2$  db; push-pull audio output circuit with negative feedback for low distortion; separate bass and treble tone controls; inputs for microphone and phonograph individually controlled to allow mixing of both inputs; four output impedances including one constant-voltage line for speaker matching; etc. Takes Amphenol 75MC1F mike connector. **Power Output:** 20 watts; peak, 22 watts. **Gain:** Mic, 120 db; Phono, 76 db. **Hum & Noise:** 75 db. **Output Imp.**: 4, 8, 16 and 245 ohms; 70-volt line. 4 tubes; 6AX5GT rectifier. U.L. Approved. Size,  $6\frac{1}{2} \times 14\frac{1}{2} \times 8\frac{1}{2}$ ". For 117 v., 60 cycle AC. 20 lbs. **No Money Down.**  
88 SU 866. NET. ....54.60

Model CHA20Y. As above, but with 3-speed phono top and turnover cartridge. Has sapphire needles. Shpg. wt., 23 lbs.  
88 SU 867. NET. ....73.50

#### CHA620 20-WATT MOBILE AMPLIFIER

- Operates From Any of Three Sources: 110-V. AC, 6-V. DC or 12-V. DC
- Built-In Power Inverter for Operating Phono Top From Battery

Completely flexible, the CHA620 can meet just about any application required of a 20-watt P.A. amplifier. Designed to operate from any of three different power sources—110-V. AC, 6 or 12-V. DC—it features a built-in power inverter for phonograph operation from a battery. Ruggedly constructed, the CHA620 is ideal for portable or mobile applications from a car or truck. When operated with battery power, current drain is minimized through a "standby" connector provided with the unit—allows amplifier to be in "ready" position at all times, with only heater circuit on. All controls, features and specifications identical to CHA20 amplifier above, with the addition of extra "Remote Standby" receptacle. Takes Amphenol 75MC1F mike connectors. U.L. Approved. Size,  $8\frac{1}{2} \times 15\frac{1}{2} \times 10\frac{1}{2}$ ". Includes standby plug assembly. AC and DC cable assemblies. Wt., 25 lbs.  
88 SU 868. NET. ....105.00

Model CHA620Y. As above, but with 3-speed phono top, turnover ceramic cartridge, dual sapphire needles. Wt., 30 lbs.  
88 SU 869. NET. ....120.00

#### CHA10 10-WATT AMPLIFIER

- For All Low-Power P.A. Applications
- Exclusive "SelectTone" 4-Pos. Control

Smallest of Bogen's "Challenger" P.A. amplifiers, the CHA10 features 10-watt power output; inputs for microphone and phono; and unique "SelectTone" control for quick tonal corrections. Has 4 positions: Deep Bass for popular recordings; Mellow for minimizing needle scratch; Crisp for speech; and Brilliant for full tonal response. Takes Amphenol 75MC1F mike connector. Response: 30 to 15,000 cps,  $\pm 2$  db. **Gain:** Mic, 115 db; Phono, 76 db. **Hum & Noise:** 70 db. **Output Imp.**: 4, 8 and 16 ohms. 3 tubes; 6AX5GT rectifier.  $5\frac{1}{2} \times 11 \times 7\frac{1}{2}$ ". Less case below. U.L. Approved. For 117 v., 60 cycle AC. Shpg. wt., 10 lbs.

88 SU 872. NET. ....36.90  
CAG10 METAL CAGE FOR CHA10. 2½ lbs  
88 S 873. NET. ....3.90

#### PORTABLE SPEAKER/AMPLIFIER CASES FOR BOGEN AMPLIFIERS

Single, split-section cases with speakers installed; have storage space for amplifiers



Sturdy wood carrying cases, covered in scuff-proof vinyl fabric. Split section design features two speakers (each fastened to half of case), with space for amplifier. Speakers are Alnico V types, designed for P.A. use. Styling in black and gray.

Model LK-12S. Includes two 12" P.A. speakers, each with 15-ft. speaker cable and plug. Case accommodates either CHA33Y or CHA20Y amplifier with phono top. Shpg. wt., 27 lbs.  
88 SU 876. NET. ....50.40

Model LK-12S. Includes two 12" P.A. speakers, each with 15-ft. speaker cable and plug. Case accommodates either CHA33, CHA20 or M330 amplifier. Shpg. wt., 25 lbs.  
88 SU 877. NET. ....46.50

Model CK-10S. Two 10" P.A. speakers, each with 15-ft. speaker cable and plug. Case takes CHA10 amplifier only. 17 lbs.  
88 SU 878. **No Money Down.** NET. ....45.55



## NEW PORTABLE TRANSCRIPTION PLAYERS

VP Series of portable transcription players—feature hi-fi reproduction and precision cueing of arm



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ik-apart"  
ny has 12"  
ter in each  
artment



**MODEL SCC-12 SPEAKER CASE**  
Use with VP40 or VP20 transcription  
ers. "Break-apart" design—forms into  
separate speaker units. Each speaker is  
n size and comes complete with 25 ft.  
nnecting cable. Cases are covered with  
ible, gray and black vinyl fabric. Size,  
5 3/4 x 11 1/2". Shpg. wt., 18 lbs.  
RU 779. NET. . . . . 49.55

### VP40 TRANSCRIPTION PLAYER

Complete, portable transcription player and  
40-watt P.A. system. Employs Bogen's B50  
hi-fi player with automatic pickup arm cue-  
ing, and variable speed feature. Transcrip-  
tion player and amplifier are housed in one  
case; two heavy-duty 12" speakers (each  
with 25-ft. cable) are mounted in a matching  
case. Amplifier/player case, 18 1/2 x 16 1/2 x  
8 1/2"; speaker case, 16 x 15 1/2 x 11 1/2". For op-  
eration from 117 v., 60 cycle AC. Shpg.  
wt., 55 lbs.  
92 RZ 780. NET. . . . . 202.15

### VP20 TRANSCRIPTION PLAYER

Portable transcription player and 20-watt  
P.A. system in a single carrying case. Also  
features Bogen's B50 hi-fi player with auto-  
matic cueing and variable speed, other fea-  
tures described below. Unbeatable for port-  
able use—entire system in a single, "break-  
apart" case—one side of case has amplifier/  
player; other side has single 12" heavy-duty  
speaker with 25-ft. cable. Size, 16 1/2 x 15 1/2 x  
12 1/2". For operation from 117 v., 60 cycle  
AC. Shpg. wt., 40 lbs.  
92 RU 781. NET. . . . . 138.15

## OUTSTANDING FEATURES OF THE VP SERIES PLAYERS

**FLEXIBILITY OF USE.** For educational uses  
(musical instrument study, dancing, calis-  
thenics, language study, speech therapy);  
for sales presentations; political rallies; and  
any other portable P.A. application.

**HI-FI TURNTABLE.** Noted for its high-quality  
performance and silent operation. Takes  
records to 16" in diameter; less than 0.5%  
wow and flutter; heavy-duty 4-pole shielded  
motor for constant speed. Has girded rubber  
turntable mat.

**VARIABLE SPEED, PLUS ALL 4 SPEEDS.** Control  
has click-stop positions for each of the 4  
speeds—16, 33 1/3, 45 and 78 rpm, plus vari-  
able speed from 29 to 86 rpm.

**AUTOMATIC CUEING.** Has lever atop deck for  
automatically raising or lowering pickup  
arm at any point on the record; assures gen-  
tle contact between needle and grooves; in-  
valuable for professional cueing.

**PICKUP ARM.** Has G.E. magnetic cartridge  
with dual sapphire needles; pressure adjust-  
ment for all types of records.

**AMPLIFIER.** Offers 40-watt output in VP40,  
20-watt output in VP20, with response of 50  
to 15,000 cps,  $\pm 1\frac{1}{2}$  db. Indirectly illumi-  
nated control panel for no-glare reading.

**CONTROLS.** Scratch Filter; Input 2 Selector  
Switch for simultaneous use of two mikes or  
one mike and any other signal source; Tuner  
Input (doubles as Tape Recorder Input);  
Mic 1 and Mic 2 Inputs for using two high-  
impedance mikes with the system, or for  
mixing and fading Mic 1 input channel with  
Mic 2 input signal; Monitor Output; Tape  
Output; Speaker Output; Auxiliary Speaker  
Output; Volume Mic 2; Volume Input 1;  
Auxiliary AC Outlet; Bass; Treble; Speech  
Filter (VP40 only).

VP40. Two 7355 output tubes; GZ34 rectifier.  
VP20. Two 6BQ5 output tubes; E281 rect.



## New Model 1004 Transcription Player

- Plugs Into Hi-Fi Set,  
Radio, TV Set, etc.
- Variable Speed  
Control

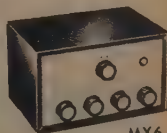
nd is variable from 29 to 86 rpm. Has  
over ceramic cartridge. With leatherette  
red wood case, 7 x 15 3/4 x 13 3/4". For 95-  
v., 60 cycle AC. Wt., 21 lbs.  
RU 767. NET. . . . . 60.00

### RP-2 PROGRAM PREAMPLIFIER

use at remote pickup points. Has  
separate input channels for mike and  
mono, with volume controls to permit  
ing, 5 1/2 x 11 7/8". Less case, be-  
For 110-120 v., 60 cycle AC.  
Shpg. wt., 5 lbs.  
SX 856. NET. . . . . 54.00  
SX 857, Case and Meter for RP-2.  
Shpg. wt., 2 lbs. NET. . . . . 18.75

### MX6 MIXER-PREAMPLIFIER

Mixes any combination of 4 of its 6 in-  
puts, which include 4 high-impedance  
mike inputs and 2 tuner-phono inputs.  
Invaluable for multi-mix applications.  
Features gain control for each input  
channel; cathode follower output; etc.  
5 1/2 x 8 3/4". For 117 v., 60 cycle AC.  
Shpg. wt., 5 1/2 lbs.  
88 SX 855. NET. . . . . 39.00



## ACCESSORIES FOR BOGEN PUBLIC ADDRESS COMPONENTS

| Stock No. | Model No. | Description                                                                                    | Wt.    | List   | NET   |
|-----------|-----------|------------------------------------------------------------------------------------------------|--------|--------|-------|
| SX 718    | LK-1      | Control Guard Locking Plate for M330; includes two keys.                                       | 2 lbs. | \$7.75 | 4.65  |
| SX 719    | LK-2      | Control Guard Locking Plate for MX60, MX30, M60, MXM; includes two keys.                       | 2 lbs. | 8.00   | 4.80  |
| SX 846    | RPK-1     | Rack Panel Mounting Kit for RP-2 Program Preamplifier, 19"x7".                                 | 6 lbs. | 14.90  | 8.95  |
| SX 847    | RPK-3     | Rack Panel Mounting Kit for M330 Amplifier, 19"x7".                                            | 8 lbs. | 19.75  | 11.85 |
| SX 848    | RPK-4     | Rack Panel Mounting Kit for MX30, MXM, M60 and MX30 units, 19"x7".                             | 8 lbs. | 19.75  | 11.85 |
| SX 849    | RPK-5     | Rack Panel Mounting Kit for M330, M60, M1000 units, 19"x8 3/4".                                | 7 lbs. | 13.65  | 8.20  |
| S 844     | SR-2      | Two-Channel Remote Control.                                                                    | 2 lbs. | 11.25  | 6.75  |
| S 845     | SR-4      | Four-Channel Remote Control.                                                                   | 3 lbs. | 16.50  | 9.90  |
| S 184     | T-155     | Plug-In Output Transformer (200 ohms), for connecting low-impedance mikes to "Flex-Pak" units. | 1 lb.  | 15.65  | 9.40  |
| S 725     | T-156     | As above, but 500 ohms impedance.                                                              | 1 lb.  | 21.25  | 12.75 |
| S 726     | T-157     | As above, but 50 ohms impedance.                                                               | 1 lb.  | 18.75  | 11.25 |

# Bogen FLEX-PAK M Series P. A. Amplifiers



MX30,  
MX60



MXM  
Mixer-Preamp



M330,  
M60



BT-25  
Transistor  
Amplifier

## MODEL MXM MIXER-PREAMPLIFIER CONTROL UNIT

- Highly Accurate Level Meter Monitors All Channels Being Used
- Connects to as Many as Five Separate Inputs with Precision Control

Designed for use in critical P.A. applications, or professional-quality recording on location. Unit includes five independently controlled mike inputs—one converts for use as a phono or tuner input. An accurate level meter permits continuous monitoring of the combined output of all channels in use. Built-in sockets accept plug-in low impedance transformers. Output is high impedance, but may be easily converted to low impedance with T-165B 600-ohm transformer, below, for remote broadcast or recording work. Also includes convenient Hi-Z output for connection to supplementary booster-amplifiers.

Among its numerous features are individual speech filters for each channel; variable level markers; and feedback-type, distortion-free tone controls. **Output:** +18 dbm at less than 1% distortion; **Controls:** 5—Gain; 4—Speech Filter; Mike-Tuner-Phono; Bass; Treble; Off-On-Master Gain. Circuit contains eight tubes, plus 6X4 rectifier. **Frequency Response:**  $\pm 2$  db, 20-20,000 cps. **Hum:** —60 db. Size,  $5\frac{1}{2} \times 16\frac{1}{2} \times 13$ ". For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 21 lbs.

88 SU 854. List, \$237.50. NET...142.50

**MODEL T-165B OUTPUT TRANSFORMER.** Converts output impedance of MXM Preamp-Control Unit above, to the 600-ohm broadcast standard. Quickly plugs into chassis socket. Shpg. wt., 1 lb.

88 S 996. List, \$20.00. NET.....12.00



Incorporating all the latest refinements, M Series P.A. amplifiers give you top flexibility. Portable, lightweight units with: leather handles for carry-about use; thumbscrew-fastened, slide-back cases for access to chassis; and handy, write-in space over gain controls to prevent errors in settings. All take Cannon XLR-3-11C mike connectors.

## 30-WATT AMPLIFIERS

Both units feature constant voltage output taps; equalized phono input; separate bass and treble controls; Cannon XL connectors; variable level markers; etc. **Response:**  $\pm 2$  db, 35 to 20,000 cps. **Output:** 30 watts at less than 2% distortion. **Output Imp:** 4, 8, 16 and 163 ohms; balanced 25-volt line, 70-volt line. **Hum:** —60 db. Power consumption of each of the units, 150 watts. For operation from 110-120 v., 50-60 cycle AC.

**MODEL M330.** Economy-priced unit. **Hum:** microphone, 60 db below rated output. Includes three mike channels (one converts to phono); 6 tubes, GZ34 rectifier.  $5\frac{1}{2} \times 14\frac{1}{2} \times 13$ ". Shpg. wt., 29 lbs.

88 SU 853. List, \$187.50. NET...112.50

**MODEL MX30 DELUXE.** For ultimate performance. **Hum:** microphone, 60 db below rated output. Includes four microphone channels (one converts to phono); Master gain control; is also wired for optional remote control accessory (see preceding page for listing). Circuit includes 7 tubes, GZ34 rectifier.  $5\frac{1}{2} \times 16\frac{1}{2} \times 13$ ". Wt., 31 lbs.

88 SU 851. List, \$225.00. NET...135.00

## 25-WATT TRANSISTORIZED MOBILE P.A. AMPLIFIER

**MODEL BT-25.** Hum-free, fully transistorized amplifier, with all the power and facilities required for a wide variety of mobile public address applications. Provides 25 watts of audio power from a 12-volt battery, or 6 watts from a 6-volt battery. Small enough to fit in the glove compartment of an auto, it has inputs for mike and aux.—record player, tuner or tape deck. Battery drain is remarkably low; requires only 3 amps at 25 watts; just  $1\frac{1}{4}$  amps at 6 watts.

## 80-WATT AMPLIFIERS

For P.A. applications requiring great area coverage. Include all of the outstanding features of the 30-watt amplifiers listed at left—constant voltage output taps; separate bass and treble controls; Cannon connectors; power stage screen regulation for higher output, greater efficiency; equalized phono input for all cartridges; plug-in sockets for low-impedance transformers; pencil-in, erase-out identification strips for all channels; same response and hum specifications; etc. **Output:** 60 watts at less than 1% distortion. **Output Impedances:** 4, 8, 16 and 83 ohms; balanced 25-volt line, 70-volt line. Size,  $5\frac{1}{2} \times 16\frac{1}{2} \times 13$ ". For 110-120 v., 50-60 cycle AC. Shpg. wt., each, 37 lbs.

**MODEL M60.** Three mike channels (one converts to phono); speech filters; 6 tubes—3—GZ34 rectifiers.

88 SU 852. List, \$231.25. NET...138.75

**MODEL MX60 DELUXE.** Four mike channels (one converts to phono); Master gain control; wired for optional remote control accessory (listed on preceding page); 7 tubes, 3—GZ34 rectifiers.

88 SU 850. List, \$290.00. NET...174.00

**Response:** (optimized for maximum intelligibility) 400-6000 cps. **Gain:** 103 db. **Distortion:** less than 10% at full output. **Controls:** microphone gain; auxiliary gain; on-off; 6 volt-12 volt selector (inside chassis). **Output impedance:** internal connection for 2-4, 8 or 16 ohms. Inputs are individually controllable, permitting mixing. Circuit is hand-wired for servicing ease. Size,  $6\frac{1}{2} \times 4\frac{3}{4} \times 3\frac{3}{4}$ ". Shpg. wt., 5 lbs.

88 S 862. List, \$120.00. NET....72.00

## MO SERIES BOOSTER-AMPLIFIERS

Skillfully designed; for use wherever undistorted high power is required. Input signal of only 2 volts drives any of the 3 boosters to rated output. Used by labs to drive "shake" tables. Offer continuous power from 50 to 20,000 cps with less than 2% distortion.

| Stock No. | Model  | Rated Output | Size, HWD                                                 | Lbs. | List     | EACH   |
|-----------|--------|--------------|-----------------------------------------------------------|------|----------|--------|
| 88 SU 858 | MO-30  | 30 watts     | $7\frac{1}{4} \times 17\frac{1}{4} \times 6\frac{1}{2}$ " | 21   | \$119.88 | 71.93  |
| 88 SU 859 | MO-60  | 60 watts     | $7\frac{1}{4} \times 17\frac{1}{4} \times 6\frac{1}{2}$ " | 23   | 167.50   | 100.50 |
| 88 SU 861 | MO-100 | 100 watts    | $7\frac{1}{4} \times 17\frac{1}{4} \times 9$ "            | 35   | 215.75   | 129.45 |

## LET US DESIGN YOUR P.A. INSTALLATION

Our audio experts will be glad to design special P.A. installations for you, centered around Knight or Bogen Public Address components. If necessary, we'll consult with Custom Division plant engineers for the make-up of any special sound system. The service is absolutely free—and the complete assembly will be checked by Sound engineers. All necessary cables and connectors are provided with the system. In addition, Knight and

Bogen P.A. components on these pages are available in a rack-mounted installation, as shown at right. Special features such as timers, signalling devices, intercom or music distribution facilities can be included in your system. Similar equipment is presently saving time and reducing costs in many hotels, schools, hospitals, terminals, etc. Take advantage of our consultation service—write Allied's Audio Division today.



Allied is Your Best Source for Everything in Audio



**KN**  
4500

# Allied's Top-Quality Microphones

**KNIGHT**

Screw-Type connector and Phone Plug Adapter Are Already Attached—No Soldering is Required

Includes Sturdy Metal Desk Stand with Tip-Proof Die-Cast Base

**KN**  
4550

High Front-to-Back Pickup Ratio—Picks Up Sound Only from Front of Mike; Reduces Effects of Audience Noise

## KN-4500 HIGH-IMPEDANCE DYNAMIC MIKE

ONLY

**\$22<sup>95</sup>**

**NO MONEY DOWN**

- Includes Attractive, Matching Desk Stand
- High-Quality Dynamic Element Provides Excellent Voice and Music Reproduction
- Screw-Type Connector & Phono Plug Adapter

An unexcelled value—comes equipped with desk stand, 10-ft. cable, and screw-type connector and phone plug adapter already attached. It can be readily connected to 90% of all tape recorders—standard-head base ( $\frac{3}{8}$ "-27), for quickly connecting to any stand mike floor stand. The omni-directional pick-up pattern and wide frequency response of the KN-4500 make it perfect for paging and P.A. use, home recording, recording of conferences, lectures, panel discussions, etc. Home recordists will appreciate the truer, clearer tone it gives to recordings—P.A. users will appreciate its ruggedness. Its moving-coil dynamic element is virtually indestructible and immune to climatic variations, as well as humidity. Wide-range response, from 60 to 12,000 cps assures natural reproduction of both voice and music. High-impedance output. Size,  $1\frac{1}{2} \times 7\frac{1}{2}$ " tip-proof, die-cast base is  $\frac{5}{8}$ " in diameter. Die-cast case, styled in gold and black. Made in U.S. Shpg. wt., 4 lbs.

94 S 097. No Money Down. NET. . . . . **22.95**

## LOW-COST KNIGHT CRYSTAL MIKE

Excellent performance at rock-bottom cost. Has high-quality, shock-mounted crystal element; provides response of 60 to 8500 cps. For home recording use, hobbyists, etc. High output level: -45 db. Plastic case,  $2\frac{1}{4} \times 2\frac{1}{2} \times 1\frac{1}{2}$ ". With 5-ft. cable. Less connector. Shpg. wt., 1 lb.

99 S 519. ONLY. . . . . **2.95**



## KN-4550 CARDIOID DYNAMIC MICROPHONE

ONLY

**\$34<sup>50</sup>**

**NO MONEY DOWN**

- Unexcelled for P.A. and Recording Use
- Super-Cardioid Anti-Feedback Pattern
- Smooth, Wide Response; 50-13,000 cps
- Includes Dual-Impedance Feature

A professional-quality, cardioid pattern, dynamic microphone. Perfect for use with recorders as well as P.A. systems of all types. Stands up under the roughest usage, indoors or outdoors. Wide response gives you faithful reproduction of voice and music in recording. Lack of "peaks" minimizes feedback in P.A. use. Highly directional pickup pattern greatly reduces pickup of undesirable stage or audience noise and "howling" when the KN-4550 is being used as a P.A. mike in "live" rooms. Two separately tuned chambers in mike housing maintain smooth response and directivity—provide astonishing clarity and truthness of tone. Employs virtually indestructible acoustalloy diaphragm—withstanding extreme heat, cold and humidity. Fits all floor and desk stands;  $\frac{3}{8}$ "-27 thread. Satin chrome, cast case with Off-On switch. Includes 18-ft. cable. Wired for high-impedance; easily changed to low-impedance. Less connector. Dia.,  $1\frac{7}{8}$ ";  $1\frac{1}{4}$ " long. Made in U.S. Wt., 2 lbs.

93 S 479. No Money Down. ONLY. . . . . **34.50**

# New Electric Guitar Accessories for Hi-Fi Sound

**"VIBRATO 'LEADER' 5-WATT AMPLIFIER/SPEAKER.** Handsomely styled case houses 5-watt amplifier and 8" speaker; delivers outstanding vibrato sound. Employs 4-tube circuit for undistorted 5-watt output. Has separate tone and volume controls, vibrato intensity and amplitude controls, vibrato off-on. Inputs for accommodating 3 guitars, plus input jack for foot switch.  $17\frac{1}{4} \times 14\frac{3}{4} \times 7\frac{3}{4}$ ". For 110-120 v., 60 cycle AC. Shpg. wt., 20 lbs.

24 RU 707. No Money Down. NET. . . . . **39.95**

**VIBRATO "12" 12-WATT AMPLIFIER/SPEAKER.** Similar in styling to above, but has more controls, more power, custom 12" speaker, 6-tube circuit; 12-watt output. Vibrato intensity and amplitude controls, vibrato off-on. Has 2 channels, each with separate volume and Master tone control—accommodates 2 guitars per channel. Has standby switch, input jack for foot switch, off-on switch with pilot light.  $15\frac{1}{4} \times 19\frac{1}{2} \times 8\frac{1}{2}$ ". For 110-120 v., 60 cycle AC. Wt., 24 lbs.

24 RU 708. No Money Down. NET. . . . . **69.95**

**MAGNETIC PICKUPS.** Not illus. Use pickup and either vibrato unit above, to convert any metal-stringed guitar for electric playing. Each pickup has tone and volume control, and detachable cord with phone jack for plugging into vibrato unit. Shpg. wt., 1 lb.

24 V 709. Model AT-16. For arched guitar. NET

24 V 710. Model AT-18. For flat-top guitar. EACH. . . . . **13.95**



Vibrato "Leader"; 5 Watts, 8" Speaker

Rear View



For Truest Vibrato Tones



Rear View



Vibrato "12" 12 Watts, 12" Speaker

Depend on Allied for Those Hard-to-Find High-Fidelity Music Accessories



Cardioid Pickup Pattern—Ideal for Noisy Areas

Three Tuned Sound Paths for High Directivity Over Full Audio Range

# Electro-Voice

## Top-Quality Dynamic Microphones

### MODEL 664 VARIABLE "D" WIDE-RANGE DYNAMIC MIKE

\$49.98

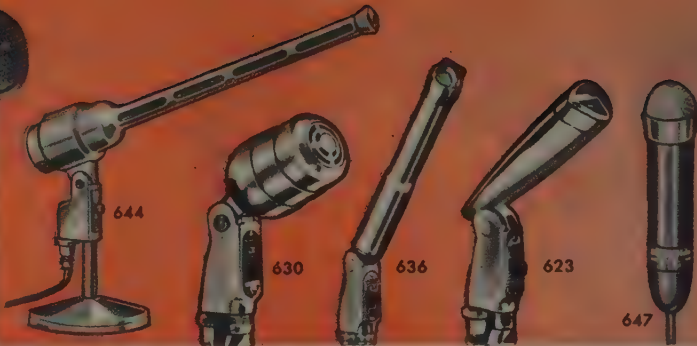
- Ideal For Tape Recordings
- 40-15,000 cps Response
- Built for Hard Use

NO MONEY DOWN

This skillfully designed, ruggedly constructed mike is a superb P.A. performer. Picks up from front only—provides high front-to-back discrimination against unwanted sounds, without close-talking boominess. Employs variable "D" (variable distance) construction to produce cardioid pattern. Unexcelled where ambient noise and severe reverberations exist; tops for recording, too. Provides natural reproduction of voice and music—increases working distance from microphone—provides greater protection against feedback problems. Equipped with a "pop-proof" wire mesh grille, the 664 minimizes wind and breath blasts—excellent for outdoor use in fixed or mobile installations. Diaphragm is shielded from dust and magnetic particles. Resists high humidity, temperature and mechanical shock.

Response from 40 to 15,000 cycles. Output —55 db. 150-ohm and high-impedance output. Supplied wired for high impedance.  $\frac{3}{4}$ "-27 thread. Cast zinc case, finished in gleistering chrome. With on-off switch; detachable, 18-ft. 2-conductor cable. Dia.,  $\frac{1}{2}$ "- $\frac{3}{4}$ " long. Shpg. wt., 2 lbs.

99 \$ 531. List, \$85.00. NET.....49.98



MODEL 644. A highly directional dynamic that lets you stand 4 times as far away as you would with ordinary mikes. Combination cardioid and distributed-front opening give greatly extended frontal pickup.

Above 700 cps, sound rejection at sides and rear is 20 to 25 db. Allows greater latitude in speaker placement, ends problems where mike cannot be used at normal distance from sound source, reduces reverberation and feedback near the vanishing point, lessens wind noise and mechanical shock.

Output, —53 db. 150-ohm or high-impedance selected by changing MC4M connector. On-off switch. Die-cast satin-chromed case with  $\frac{3}{4}$ " aluminum tube. Dia.,  $\frac{2}{3}$ "- $\frac{1}{2}$ " long.  $\frac{3}{4}$ "-27 thread. 18-ft. 2-cond. shielded cable. Less stand. Shpg. wt., 3 lbs.

90 \$ 207. List, \$110.00. NET.....64.68

MODEL 630. Popular dynamic mike for dispatching, schools, churches, tape recording and general usage. Has non-directional pattern becoming directional at high frequencies. May be mounted on floor or desk stand and tilted through 90° arc toward sound source, or hand-held. "Acoustalloy" diaphragm has a 60-11,000 cps response. Output, —55 db. 150-ohm unit has 18-ft. 2-cond. shielded cable; hi-Z unit has 1-cond. cable. On-off switch. Chrome-plated,  $\frac{6}{16}$ "- $\frac{3}{4}$ "-27 thread. 2 lbs.

99 \$ 347. 150-Ohm Impedance.

99 \$ 336. High-Impedance.  
List Each, \$52.50. NET EACH.....30.87

MODEL 636 "SUMAIR." For P.A. use and tape recording of individual and group singers and speakers, choirs, orchestras, etc. Wire mesh blast-filter, 90° swivel. Response, flat from 60 to 13,000 cps. 150-ohm or high impedance (connected for high-impedance output when shipped). Output, —58 db. Chrome-plated steel case.  $\frac{1}{2}$ " dia.,  $\frac{10}{16}$ " long.  $\frac{3}{4}$ "-27 thread. On-off switch. With detachable, 18-ft. 2-conductor shielded cable. Shpg. wt., 2 lbs.

99 \$ 581. List, \$72.50. NET.....42.63

MODEL 636G. As above but gold finished.

99 \$ 591. List, \$77.50. NET.....45.57

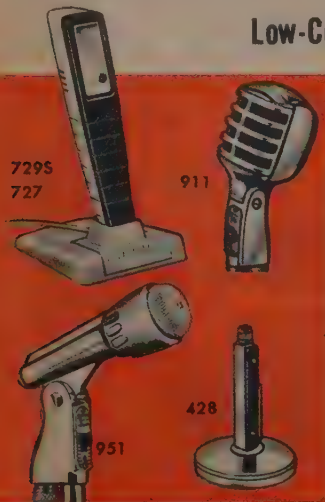
MODEL 623. Low-cost, slim-styled mike for P.A., recording, communications, 60-12,000 cps. Output, —56 db. 150-ohm or high-impedance output (set for high-Z when shipped). On-off switch. Chrome-plated. Dia.,  $\frac{1}{2}$ "- $\frac{3}{4}$ " long.  $\frac{3}{4}$ "-27 thread. 18"-2-cond. shielded cable. Wt., 2 lbs.

99 \$ 595. List, \$57.00. NET.....33.52

MODEL 647. Small, dynamic all-directional lavalier mike for P.A. use. Can be hand-held, suspended from neck, used on desk stand or boom. Great wherever concealment, mobility or free use of hands is desired. Pop-proof grille minimizes wind blasts. Withstands weather extremes and severe shocks. 60-10,000 cps. Output, —55 db. 150-ohm or high-impedance output (connected for hi-Z when shipped). Non-reflecting gray.  $5 \times 1 \frac{1}{2}$ ". With neck cord, tie clip, belt clip, 18-ft. 2-cond. shielded cable. Shpg. wt.,  $\frac{1}{4}$  lbs.

99 \$ 585. List, \$82.50. NET.....48.51

## Low-Cost Ceramic and Crystal Microphones



MODEL 729S CERAMIC. Exceptionally low-priced uni-directional cardioid mike. Offers high front-to-back discrimination. Withstands temperature extremes and humidity. For P.A., home recording. Amateurs, call and paging systems, etc. 60-8,000 cps. Output, —60 db. High-impedance. On-Off switch. Gray die-cast front, plastic back. With desk stand, floor stand adapter. Dia.,  $\frac{1}{2}$ "- $\frac{3}{4}$ " long. 10-ft. cable. 1 lb.

93 \$ 419. List, \$26.50. NET.....15.58

MODEL 729. As above, less switch.

93 \$ 222. List, \$24.50. NET.....14.41

MODEL 727 CERAMIC. All-directional, with desk stand, plus floor stand adapter. Response 60-8,000 cps. Output level, —55 db. High-impedance.  $\frac{7}{8} \times 1 \frac{1}{2} \times 1 \frac{1}{4}$ ". 5-ft. cable. Shpg. wt.,  $\frac{1}{2}$  lbs.

93 \$ 226. List, \$18.00. NET.....10.58

MODEL 911. For low-cost P.A. applications, tape recording, Amateur use, etc. All-directional pickup pattern becomes slightly directional at higher frequencies. 50 to 9,000 cps. Output, —50 db. High-impedance. Chrome-plated,  $\frac{2}{3} \times \frac{3}{4} \times \frac{3}{4}$ " long. Upright swivel mounting; On-Off switch.  $\frac{3}{4}$ "-27 thread. 18-ft. cable. Wt.,  $\frac{2}{3}$  lbs.

99 \$ 554. List, \$32.50. NET.....19.11

MODEL 951 CRYSTAL. Excellent crystal microphone using exclusive variable "D" principle to achieve cardioid directivity and uniform frequency response. Boasts wide-range reproduction and pop-proof wire mesh grille to minimize wind and breath noises. Uniform polar response makes it highly suitable for noisy locations, or where much echo is present. Response, 50-11,000 cps. Output, —60 db. TV-gray, die-cast case.  $1 \frac{1}{2} \times 5 \frac{1}{2}$ ". 18-ft. shielded, single-conductor cable. Shpg. wt.,  $\frac{1}{2}$  lbs.

94 \$ 092. List, \$54.50. NET.....32.05

MODEL 418 DESK STAND. Similar to Model 419 on opposite page. For 951, 911, 636, 630 and 623 mikes. Cast iron; gray. 4 lbs.

94 \$ 059. List, \$10.00. NET.....5.88

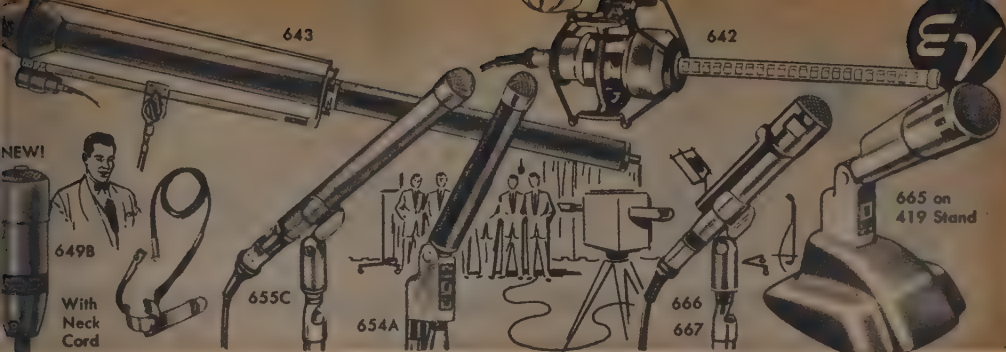
MODEL 428 TOUCH-TO-TALK STAND. Touch-bar on stem actuates SPDT switch. Has locking button. Satin chrome. Base dia.,  $\frac{5}{8}$ "- $\frac{1}{2}$ " stem 7" H.  $\frac{3}{4}$ "-27 thread. 2 lbs.

94 \$ 053. List, \$17.50. NET.....10.29

MODEL 502 MATCHING TRANSFORMER (Not illus.) Allows connecting long-line, low-impedance mikes to amplifiers with high-impedance input. With connector and 2-ft. single cond. cable. Shpg. wt., 1 lb.

94 \$ 084. List, \$17.50. NET.....10.29





## Professional Broadcast Microphones . . . by *Electro-Voice*

**MODEL 642 "CARDILINE" DYNAMIC.** Ideal "boom" mike for TV use. 90° pattern lets you "aim" mike for maximum audio pickup. Cardioid action plus distributed-front opening assure high directivity over entire 30-10,000 cps range—greatly reduce wind noise. Effective working distance is 2 to 3 times that of other directional mikes. Choice of 5 or 10 db of bass attenuation. Impedance, 50, 150 or 250 ohms. Output, -48 db. Hum pickup, -120 dbm. 20-ft., 3-cond. cable; Cannon connector. Aluminum case, 17½x3¼". Less model, below, 4 lbs.

**88 SU 891. NET. . . . . 229.32**

**MODEL 356 BOOM SHOCK MOUNT.** For above. Shpg. wt., ¾ lb.

**88 S 892. NET. . . . . 29.40**

**NEW MODEL 643 DYNAMIC.** Designed to do jobs previously considered impossible. Mike can be placed at greatly extended distance from source of sound and still provide superb quality. Perfect for pickup in large auditoriums, parades, conventions. Can be placed in convenient location and directed where desired for audience participation. Furnished with integral wind filter and adjustable bass cutoff filter for reduction of reverberation. Output, -47 db. Impedance, 50, 150, 250 ohms. 20-ft. 3-cond. shielded cable. Max. dia., 4"; 72" long. 16 lbs.

**88 SU 990. List, \$1560. NET. . . . 917.28**

**NEW MODEL 649B DYNAMIC.** Ultra-small lavalier mike. Only ¾" in diameter and 2¼" long. Weighs just 1½ ounces. 60-10,000 cps. Output, -60 db. 50-250 ohms. TV Gray. 30-ft., 2-cond. cable. 1 lb.

**88 S 989. List, \$105.00. NET. . . . 61.74**

## Popular E-V Communications, P.A. and Recording Mikes

**MODEL 602 DIFFERENTIAL DYNAMIC.** For 2-way radio, mobile, P.A. and other uses where noise cancellation and high-articulation are vital. Press-to-talk DPDT switch controls mike and relay. Response, 100 to 7,000 cps. Output, -55 db at ¼". High-impedance, 6-ft. coiled cord. Black phenolic case. With mtg. bracket. 2¼x2¼". 10 oz.

**93 S 224. List, \$57.50. NET. . . . 33.81**

**600-D DYNAMIC—LOW-Z.** Similar to above but not differential. Imp., 250 ohms.

**90 S 206. List, \$47.50. NET. . . . 27.93**

**600-D DYNAMIC—HIGH-Z.** As above, but high impedance.

**90 S 209. List, \$47.50. NET. . . . 27.93**

**MODEL 205KK—DIFFERENTIAL CARBON.** Single-button mike for maximum intelligibility under high noise. Articulation is 97% under quiet conditions; 88% under 115 db ambient noise. Blast-proof; shock-resistant. Output, -50 db at ¼". 100-4000 cps. DPDT press-to-talk switch. 6-ft. cord. 2¼x2¼x4". Mtg. bracket. 1 lb.

**99 S 590. List, \$45.00. NET. . . . 26.46**

**MODEL 655C DYNAMIC.** Deluxe "Slim-Trim" mike for exacting professional recording and broadcasting applications. Wide frequency response, all-directional pickup range, and light weight (only 7 oz.), make it ideal for TV staging and audience participation. Can be used on stand, in hand or on boom; easily concealed in studio props. Breath-blast filter head. Essentially flat from 40 to 20,000 cps. Output, -55 db. Quickly changed impedances of 50, 150 and 250 ohms (connected for 150 ohms when shipped) on terminals in case. Has cast-aluminum case; non-reflecting gray. Dia., 1¼"; 10¾" long. With clamp-on adapter for ¼" and ⅝"-27 stands; detachable, 20-ft., 3-conductor, shielded cable. Shpg. wt., 1¼ lbs.

**99 S 579. List, \$200.00. NET. . . . 117.60**

**NEW MODEL 654A DYNAMIC.** Economical all-directional microphone that performs beautifully in an extremely wide variety of applications. Essentially flat response from 55-15,000 cps. Works into 50-250-ohm inputs. Output, -55 db. With adapter for ¼" and ⅝"-27 stands, and neck cord. 18-ft. 3-cond. cable. 7"x1½". 1 lb.

**88 S 988. List, \$100.00. NET. . . . 58.80**

**MODEL 419 DESK STAND.** Shown above with 665 mike. Use with 665, 664 and 644 microphones. Shpg. wt., 3 lbs.

**94 S 082. List, \$10.00. NET. . . . 5.88**

**MODEL 420 DESK STAND.** Similar to 419 desk stand, with clamp for mounting 666, 655C, 654A and 647 mikes. 4 lbs.

**94 S 056. List, \$20.00. NET. . . . 11.76**

**MODEL 605 DYNAMIC.** Brings the advantages of dynamic mikes to the P.A. field at a budget price. Offers excellent speech reproduction, high-level output and pleasing appearance. Resists temperature and humidity extremes. Non-directional at low frequencies, slightly directional at higher frequencies. 65-8000 cps. High-impedance. ⅝"-27 thread. 2x3¼". 18-ft. cable. 1 lb.

**99 S 592. List, \$32.50. NET. . . . 19.11**

**MODEL 715 "CENTURY" CERAMIC.** Ideal for home recordings, paging etc. Resists extremes of temperature and humidity. All-directional. 60-7000 cps. Output, -55 db. High-impedance. 3x2¼x1". ⅝"-27 stand adapter. 5-ft. cable. 1 lb.

**99 S 586. List, \$13.00. NET. . . . 7.65**

**MODEL 715-S.** As above, but with push-to-talk switch; has "lock-on" position.

**93 S 227. List, \$15.00. NET. . . . 8.82**

**MODEL 415 DESK STAND.** For "Century" mikes. 15° tilt. Satin chrome finish. 6 oz.

**94 S 050. List, \$1.75. NET. . . . 1.03**

**MODEL 666 DYNAMIC.** Superior mike for broadcast and TV use; variable "D" design for effective cardioid pattern—"discriminates" against unwanted sound from sides and rear. Response is flat from 30 to 16,000 cps; average front-to-back ratio, 24 db. Output, -58 db; adjusts to 50, 150, 250 ohms. 1¼x7½". With adapter for ¼" and ⅝"-27 stands, 20-ft. 3-cond. cable. 1 lb.

**99 S 593. List, \$255.00. NET. . . . 149.94**

**MODEL 667 DYNAMIC.** For TV, other tough jobs. Compensates for room acoustics. Includes transistor preamp with 40 response characteristics, bass and treble controls, 4 attenuation levels. Flat, 35-16,000 cps. Output variable, -30 to -48 db. For 250, 150, 50-ohm inputs. Noise, -123 dbm. Dynamic range at max. gain, 120 db. Mike, 1¼x7½"; preamp, 9x3¼x3¼". 50' and 20' cables, connectors; ¼" pipe thread with ⅝"-27 adapter. 4 lbs.

**94 SU 093. List, \$600.00. NET. . . 352.80**

**MODEL 665.** Similar to Model 666, but for less exacting applications. 50 to 14,000 cps. Output, -53 db. Switch selects 50 or 250 ohms. Dia., 1½"; 7¾" long. 18-ft., 3-cond. shielded cable and adapter for ¼" and ⅝"-27 stands. 2 lbs.

**99 S 530. List, \$150.00. NET. . . . 88.20**

**MODEL 366 BOOM SHOCK MOUNT.** For 666 or 667. Wt., 12 oz.

**94 S 057. List, \$40.00. NET. . . . 23.52**

**MODEL 524 WIND SCREEN.** For 666 or 667. Shpg. wt., 2 oz.

**94 S 083. List, \$8.00. NET. . . . 4.70**





## Rugged, Reliable, General-Purpose Dynamic Mikes

### MODEL 540S SONODYNE II MIKE

**\$29.37**

NO MONEY  
DOWN

Soundmen will welcome this new general-purpose microphone. It's the "just right" for tape recording applications and sound systems of many types. All-directional pattern provides maximum coverage of 360°. Designed for both music and speech reproduction. Has convenient On-Off switch. Frequency response is 60-10,000 cps, with provision for alternate response of 150-6500 cps to provide maximum voice intelligibility in paging and communications applications.

Modern styling and compact size make it highly desirable for use in theater, restaurant, P.A. systems, interview-type shows, etc. Swivel mounting permits tilting for optimum positioning; 5/8"-27 thread. Dual-impedance: 50-250 ohms, and high-impedance; Output: Hi-Z, -52 db; Low-Z, -57 db. Handsomely finished in satin-chrome and black. 3 3/4" long; 1 1/4" in diameter. Includes 15-foot, 2-conductor shielded cable. Shpg. wt., 3 lbs.

90 S 236. List, \$49.95. NET.....29.37

MODEL 55S. Rugged, dynamic mike; withstands severe mechanical shock as well as heat and moisture. Cardioid feature permits placement at a distance from performer 75% greater than all-directional mikes. An ideal singer's or announcer's mike. 50 to 15,000 cps. Switch selects impedances of 35-50, 150-250 ohms, or high-impedance. Output, -57db at high-imp. Swivel mtg. Chrome. 3/8"-27 thread, 18-ft. cable. 7 3/4"x2 3/4"x3 1/4". Shpg. wt., 4 1/4 lbs.

99 S 395. List, \$83.00. NET.....48.80

MODEL 555W. As above, but includes On-Off switch for added convenience.

90 S 239. List, \$85.00. NET.....49.98

MODEL 556S. Deluxe version 55S. Built to close tolerances for exceptional response (40-15,000 cps), and directivity. Shock-mounting. Has Cannon XL-3. 4 1/2 lbs.

99 S 396. List, \$135.00. NET.....79.38

MODEL 51 "SONODYNE." Semi-directional; for recorder and P.A. use. Response 60-10,000 cps. 35-50, 150-250 ohms, and high impedance switch selected. Output, -52 db. Chrome. Swivel mount. Detachable, 15-ft. cable. 5 3/4"x3 1/4"x2 1/4". Wt., 3 1/2 lbs.

99 S 378. List, \$49.50. NET.....29.11

MODEL 51S. Same as above, but includes On-Off switch.

90 S 240. List, \$51.50. NET.....30.28

MODEL 545 "UNIDYNE III." Has cardioid pattern which is extremely effective in minimizing feedback; also gives greater control of sound in tape recording. Slender design and small size make it ideal for hand-held use, or inconspicuous stand-mounting. Dual-impedance; changed from high to low by moving one wire in plug (wired for high-imp. when shipped). 50 to 15,000 cps. Output: Hi-Z, -55 db; Low-Z, -57 db 5 1/4" long; 1 1/4" O.D. Chrome and black. With A-25 swivel adapter; 18-ft., 3-cond., shielded cable. Shpg. wt., 3 lbs.

90 S 402. List, \$85.00. NET.....49.98

MODEL 545S. As above, with On-Off switch.

90 S 237. List, \$89.95. NET.....52.89

MODEL 546. Broadcast version of Model 545.

90 S 238. List, \$135.00. NET.....79.38

MODEL 535 "SLENDYNE." Practical all-directional mike. Excellent for indoor and outdoor sound system use. Has "On-Off" switch. Can be hand-held, used on stand, or with lavalier cord. Response, 60-13,500 cps. Dual-impedance switch selects 50-250 ohms and high-impedance. Output, -61 db. With swivel adapter, 5/8"-27 thread. Detachable, 18-ft. 2-conductor shielded cable with MC3 connector. Satin-chrome. 7 1/2" long; 1 1/4" diameter. Shpg. wt., 3 lbs.

99 S 657. List, \$72.50. NET.....42.63



"Commando"

60-10,000 cps  
Output, -52 db  
All-Directional

415, 430

420

MODEL 415. Controlled magnetic. Metal and polystyrene case; gray and chrome. High-imp. 5/8"-27 swivel adapter. 7-ft. non-detachable, single cond., shielded cable. 6 1/4" long. 1 lb.

94 S 085. List, \$27.50. NET.....16.17

MODEL 430. As above, but press-to-talk switch. 150-250 ohms and high-impedance. Polystyrene and metal case. With detachable 15-ft., 2-conductor, shielded cable and 5/8"-27 thread swivel adapter. 6 1/4" long. Shpg. wt., 1 1/2 lbs.

94 S 087. List, \$38.50. NET.....22.64

MODEL 420. Controlled magnetic. 150-250 ohms and high-imp. Gray polystyrene; 20-ft., non-detachable 2-cond. shielded cable; lavalier cord. 3 1/4"x1 1/4". 1/2 lb.

94 S 086. List, \$30.00. NET.....17.64

MODEL 425. Same as above, but fitted for mounting on goose-neck. With 7-ft., 2-cond., shielded cable; less lavalier cord.

90 S 403. List, \$30.00. NET.....17.64



710A  
710S  
510C  
510S

Retractable  
Built-in Stand

715, 215

777  
777S

Lavalier  
Hand-Held  
Stand-Mount

MODEL 710A "REX." Crystal; for home recorders, Ham radio, etc. 60-9000 cps. Output, -50 db, high-imp. 7-ft. cable. 3/8"x2 1/4"x1 1/4". 5/8"-27 thread. 1 1/4 lbs.

99 S 386. List, \$12.00. NET.....7.05

MODEL 710S. As above, with On-Off switch.

99 S 387. List, \$14.00. NET.....8.23

MODEL 510C "HERCULES." Controlled magnetic—resists heat and humidity. 100-7000 cps. -52.5 db; high-imp. 7-ft. cable. 3/8"x2 1/4"x1 1/4". 5/8"-27 thread. 1 1/2 lbs.

99 S 384. List, \$17.00. NET.....10.00

MODEL 510S. As above, with On-Off switch.

99 S 385. List, \$19.00. NET.....11.17

MODEL 715 "STARLINE." High-output crystal. For home recording, intercom, etc. Has built-in stand. Response, 60-10,000 cps. Impact-resistant, gray and black case. 3 3/4"x2 1/4"x1 1/2". 5-ft. cable. Wt., 1 1/2 lbs.

94 S 089. List, \$8.00. NET.....4.70

MODEL 215. As above, but ceramic element.

94 S 088. List, \$8.00. NET.....4.70

MC 11-J. Not illius. Circular, controlled mag. Imp., 1000 ohms. 400-3000 cps. Output, -71 db 1 1/4" dia., 3/4" thick. 2 oz.

90 S 246. List, \$12.50. NET.....7.35

MODEL 777 "SUM-X." Multiple-purpose crystal mike. Can be worn as a lavalier, hand held, or mounted on stand. In vertical position, pickup pattern is all-directional. Response, 60-10,000 cps. Output, -62 db, high-imp. Chrome. Detachable, 7-ft. cable; neck-cord. 5/8"-27 thread. 4 1/4"x1 1/4". 1 lb.

99 S 616. List, \$25.00. NET.....14.70

MODEL 777S. As above, with On-Off switch.

99 S 617. List, \$27.00. NET.....15.88

S-38 BASE. For above. Requires A-25, below.

Shpg. wt., 1 1/2 lbs.

94 S 038. List, \$4.50. NET.....2.65

A-25 SWIVEL ADAPTER. For 777 mike and any stand listed in this Catalog. 5/8"-27 thread. Swings 90°. Wt., 8 oz.

94 S 039. List, \$5.50. NET.....3.23

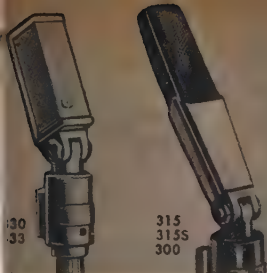
MODEL S-36A STREAMLINED DESK MOUNT. Fits all Shure mikes except Series 405, 100, 76B and 420. Similar to base on S20SL mike on next page. Shpg. wt., 1 1/2 lbs.

94 S 035. List, \$6.50. NET.....3.82

MODEL A86A TRANSFORMER. For running lines from low-imp. mikes to high-imp. inputs. Matches 35-50 or 150-250 ohms. ±1 db 20-20,000 cps. 2 1/4"x1 1/4". 2 lbs.

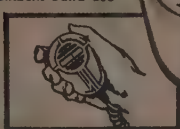
41 S 917. List, \$17.50. NET.....10.29





Grip-to-Talk  
Hand-Held Mikes

For Mobile,  
Intercom and  
Citizens Band Use



404B  
404C

520SL  
520SLB



SHURE

NEW!

Speech  
Frequency  
Microphones

440SL  
440



## Shure Broadcast and Communications Mikes

**MODEL 330 "UNI-RON."** Rugged, ultra-cardioid studio-quality, ribbon mike—primarily for indoor use. Reduces pickup of random noises by 73%. Shock-mounted.  $\pm 2\frac{1}{2}$  db. 30-15,000 cps. Switch selects 50, 150 or 150-ohm impedances. Output,  $-57$  db. Swivel with  $\frac{3}{16}$ "-27 thread. Satin-chrome.  $1\frac{1}{16}$ "x $1\frac{1}{2}$ ". Detachable 20-ft. cable with Cannon XL-3 Wt., 4 lbs.

**94 S 090.** List, \$120.00. NET.....**70.56**

**MODEL 333.** Deluxe version of above. Voice-Music switch adjusts response for optimum performance. With shock mount. Output level,  $-59$  db. Non-reflecting bronze finish.  $\frac{3}{16}$ "x $1\frac{1}{2}$ "x $1\frac{1}{4}$ ". Shpg. wt., 4 lbs.

**99 S 456.** List, \$250.00. NET.....**147.00**

**MODEL 315.** As above; less shock mount and Voice-Music switch. 50-12,000 cps. Chrome.  $1\frac{1}{16}$ "x $1\frac{1}{2}$ ". With 18-ft. cable. Wt.,  $\frac{3}{4}$  lbs.

**99 S 398.** List, \$89.50. NET.....**52.63**

**MODEL 315S.** Same as above, but with convenient On-Off switch.

**90 S 241.** List, \$91.50. NET.....**53.80**

**MODEL 300. DELUXE BI-DIRECTIONAL.** Has shock mount and Voice-Music switch. 40-5,000 cps. 30-50, 150-250 ohms, high-imp. Output,  $-57$  db. at high-imp. Bronze. With 20-ft. shielded cable and Cannon XL-3. 6x $\frac{3}{16}$ "x $2\frac{1}{4}$ ". Shpg. wt.,  $\frac{3}{4}$  lbs.

**90 S 397.** List, \$150.00. NET.....**88.20**

**MODEL 404B.** Controlled magnetic mike. Designed for excellent speech intelligibility. Ideal for outdoor public address, sports announcing—where long lines are used. Response, 200-8000 cps. Output,  $-50$  db at 150-250 ohms. High-impact, "Armo-Dur" plastic case; blue-gray. With mtg. bracket and  $\frac{5}{16}$ "-ft. extended, 4-cond. (two cond. shielded) coiled cable.  $3\frac{1}{16}$ "x $2\frac{1}{2}$ "x $1\frac{1}{4}$ ". Push-to-talk switch. Shpg. wt., 1 lb.

**90 S 244.** List, \$33.00. NET.....**19.40**

**MODEL 404C.** As above, but high-impedance. Popular for communication work. Hand-held; with grip-to-talk switch. Output,  $-50.5$  db. With  $\frac{5}{16}$ "-ft. 3-cond. (one cond. shielded) coiled cable.

**90 S 245.** List, \$33.00. NET.....**19.40**

**MODEL 520SL "DISPATCHER."** Ruggedly built, controlled magnetic microphone. Has grip-to-talk, slide-to-lock switch bar that operates microphone and relay circuits. Response, 100-9000 cps. Output,  $-52.5$  db. High-impedance. Chrome and green with 7-ft., 2-cond. shielded cable.  $\frac{9}{16}$ " high; 5" base. Shpg. wt., 5 lbs.

**99 S 388.** List, \$45.00. NET.....**26.46**

**MODEL 520SLB "DISPATCHER."** As above, but low-impedance—150-250 ohms. Output,  $-51$  db. 7-ft., 4-cond. cable.

**90 S 404.** List, \$49.25. NET.....**28.96**

### MODEL 440SL MICROPHONE

**\$27.93**

• Radio Communications  
—Commercial, Amateur,  
Citizens Band  
• VOX; Grip-to-Talk Switch

NO MONEY DOWN

Omni-directional, controlled magnetic mike designed and engineered to meet radio communications requirements. Eliminates audio filters—has rising response characteristic with sharp cutoff below 300 and above 3000 cps. High-impedance. Output,  $-52.5$  db. Ideal for single-sideband VOX; with grip-to-talk switch. Die-cast zinc case, chrome; gray base. With 7-ft., 2-cond. shielded cable. Amphenol MCM plug, and stand.  $\frac{9}{16}$ "x $5\frac{7}{8}$ ". Shpg. wt., 5 lbs.

**90 S 243.** List, \$47.50. NET.....**27.93**

**MODEL 440.** Similar to above, but less grip-to-talk switch, and stand. Standard  $\frac{3}{16}$ "-27 thread. With 7-ft., single-conductor shielded cable.  $2\frac{1}{16}$ " diameter,  $\frac{3}{4}$ " overall length. Shpg. wt.,  $\frac{1}{2}$  lbs.

**90 S 242.** List, \$25.00. NET.....**14.70**

**A87K SWITCH KIT.** Not illus. For use with 440SL mike. Provides instant changeover from VOX to push-to-talk operation; mike-mute in either operation. Wt., 2 lbs.

**90 S 247.** List, \$3.25. NET.....**1.91**



403L  
Lavalier  
Mike

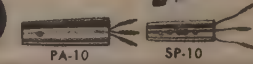
404L  
Broadcast  
Lavalier



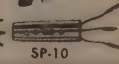
SA-10



SSP-10



PA-10



SP-10



501  
on SP-10  
Mount

401  
on SA-10  
with SP-10

NEW!  
Model  
70  
on SA-10  
Mount

### LAVALIER MICROPHONES

**MODEL 404L BROADCAST LAVALIER.** Handy lavalier-type microphone incorporates features of larger omni-directional mikes. Meets needs of professional broadcasters for performance, ruggedness and flexibility. Converts to stand mounting with adapters, at right. Response, 50 to 20,000 cps. Output,  $-55$  db. Has built-in adjustments for 30-50, 150-250 or 20,000 ohm impedances. Bronze.  $4\frac{1}{4}$ " long;  $1\frac{1}{16}$ " O.D. With 25-ft. cable and neck clip. Wt.,  $\frac{1}{4}$  lb.

**90 S 226.** List, \$95.00. NET.....**55.86**

**MODEL 403L TELECASTER LAVALIER.** Small lavalier type, designed for broadcasting and telecasting applications where hand-free, unobtrusive mikes with long lines are needed. Provides wide-range reproduction of voice and music. Response, 50 to 18,000 cps. Output level,  $-55$  db. adjusts for 30-50 or 150-250 ohm impedances.  $\frac{3}{16}$ " long;  $1\frac{1}{16}$ " O.D. With 25-ft. cable and flexible, cloth-covered neck clip. Shpg. wt., 1 lb.

**90 S 225.** List, \$87.50. NET.....**51.45**

**MODEL 501 CARDIOID.** Uni-directional pattern eliminates unwanted background noise. Popular for studio-quality tape recording, broadcasting and for deluxe sound system use. Response, 30 to 16,000 cps. Output,  $-54$  db. Plug-in selection of 30-50, 150-250 and 20,000-ohm impedances.  $5\frac{3}{8}$ " long;  $1\frac{1}{2}$ " O.D. Less cable, below. Wt., 1 lb.

**90 S 227.** List, \$125.00. NET.....**73.50**

### UNIVERSITY MIKE ACCESSORIES

**90 S 230.** SA-10 Slide-On Stand Adapter. 3x $1\frac{1}{2}$ ". Wt.,  $\frac{1}{4}$  lb. NET.....**4.12**

**90 S 229.** SSP-10 Stand Adapter with Switch. Has receptacle for Cannon plug. 4x $1\frac{1}{2}$ ". Wt.,  $\frac{1}{2}$  lb. NET.....**10.88**

**90 S 232.** CC-10 Cable Assembly. With 18' cable. 2x $\frac{1}{16}$ ".  $\frac{1}{4}$  lb. NET.....**5.88**

**90 S 231.** SP-10. Switch Cannon Plug Adapter. 3x $\frac{1}{2}$ ".  $\frac{1}{4}$  lb. NET.....**6.76**

**90 S 233.** PA-10 Cannon Plug Adapter. 3x $\frac{1}{2}$ ". Wt.,  $\frac{1}{4}$  lb. NET.....**6.17**

**90 S 234.** CA-10 18' Cable for SP-P10, SP-10, PA-10.  $\frac{1}{4}$  lb. NET.....**5.88**

**MODEL 70 ALL-DIRECTIONAL.** Adds a professional touch to recording and P.A. 50-14,000 cps. High and low-impedance outputs; level,  $-50$  db. SA-10 adapter; 15-ft. cable. 6x $\frac{1}{2}$ "x $1\frac{1}{2}$ ". Wt.,  $\frac{1}{4}$  lb.

**90 S 235.** List, \$49.92. NET.....**29.35**

**MODEL 401 ALL-DIRECTIONAL.** 40 to 20,000 cps.  $-55$  db. 30-50, 150-250 and 20,000 ohms. 6x $\frac{1}{2}$ "x $1\frac{1}{2}$ ". Less cable,  $\frac{1}{4}$  lb.

**90 S 223.** List, \$72.50. NET.....**42.63**

**MODEL 402S ALL-DIRECTIONAL.** Shock-mounted. 40 to 20,000 cps. Output,  $-55$  db. at 30-50, 150-250 and 20,000 ohms. 8x $\frac{1}{2}$ "x $1\frac{1}{2}$ ". Less cable, Wt.,  $\frac{1}{4}$  lb.

**90 S 224.** List, \$79.50. NET.....**46.75**

**MODEL 502S CARDIOID.** Similar to Model 501, but designed for more critical applications. Shock-mounted; has wide-range response. 30-16,000 cps. Output,  $-54$  db. Uni-directional pattern "spotlights" performer.  $7\frac{1}{4}$ " long;  $1\frac{1}{2}$ " O.D. Less cable, at left. Shpg. wt.,  $\frac{1}{4}$  lb.

**90 S 228.** List, \$145.00. NET.....**85.26**



# ASTATIC

Known the world over, for top-quality dynamic, ceramic and crystal microphones. You'll find a model perfectly suited to every application.



JT-30



D-104



200 Series



DN-HZ

## Astatic Low-Cost High-Quality Microphones

**Model 77  
Cardioid Mike**

**\$48.51**

No Money Down

High-fidelity uni-directional dynamic cardioid microphone. Features extremely high front-to-back cancellation of 18 db for highest resistance to pickup from the rear—virtually eliminates feedback. Other outstanding features: rugged, dynamic cartridge, suspended to minimize mechanical vibrations; easy positioning of mike head—tilts 90° backward; Off-On switch that can be locked in "on" position. Essentially flat response, 30 to 15,000 cps. "Pop" and "blastproof" "Mylar" diaphragm. Output —52 db. Switch selects 30-50 ohms, 150-250 ohms and high-Z. 3/4"-27 thread. Satin-chrome. 8x2 1/2x2 5/8". With 20-ft. 2-cond. shielded cable, 3 lbs.

93 S 269. List, \$82.50. NET.....48.51

**MODEL JT-30 CRYSTAL.** A budget-priced, all-purpose microphone. Ideal for P.A., recording, communications, etc. High impedance. With removable hand grip and interlocking desk-type stand. Detaches easily from hand grip for mounting on standard floor stands. Response, 30-10,000 cps. Output level, —49 db. Opalescent gray Hamerlin finish, with chrome grille, 8" high. Includes 8-ft., shielded cable, 2 1/2 lbs.

99 S 302. List, \$18.40. NET.....10.82

**MODEL JT-30F CRYSTAL.** Same crystal microphone as above, but less handle and base—mike head only. Has 3/4"-27 thread; fits any standard desk or floor microphone stand. Shpg. wt., 1 1/2 lbs.

90 S 212. List, \$15.90. NET.....9.35

**MODEL D-104 "PREMIER" CRYSTAL.** High impedance mike. Popular among Amateurs. Response, 30-7,500 cps. Output level, —45 db. Produces the maximum amount of speech in the voice range. 3/4"-27 thread. With 5-ft. cable. Shpg. wt., 1 1/4 lbs.

99 S 309. List, \$31.00. NET.....18.23

**MODEL 200 CRYSTAL.** An all-purpose crystal mike for home recording, paging, Amateur communications, etc. Response, 30-10,000 cps. Output, —50 db. High-impedance. Includes detachable base, with 3/4"-27 mounting. Gold and chrome. 8x2 1/2" dia. 8-ft. single-cond. shielded cable, 1 1/4 lbs.

90 S 215. List, \$19.50. NET.....11.47

**MODEL 200-S.** As above, with off-on switch.

90 S 216. List, \$21.50. NET.....12.64

**MODEL 241-S.** Same as Model 200-S, but has rising response of 1500 to 5500 cps.

90 S 217. List, \$21.50. NET.....12.64

**MODEL DN-HZ DYNAMIC.** All-directional high-impedance microphone. Ruggedly constructed, the "Commentator" features a handy, tilting-head swivel mount. An ideal unit for all general-purpose semi or non-directional applications. Frequency response, 50-7000 cps. Output level, —52 db. Opalescent gray baked enamel with chrome grille and trim. 6 1/2x2 1/2x4 1/4". 3/4"-27 thread. 10-ft. cable. Wt., 2 1/2 lbs.

99 S 304. List, \$39.70. NET.....23.34

## Popular "All-Around" Economy Microphones by Astatic



INCLUDES LAVALIER CORD

Series 330 on A7 Stand



150 Ideal for Home Recording



10-C; 10-D



10M5-A



MC-151



Model G Grip-to-Talk Black Standard



T-3

Beautifully styled mikes for a wide variety of uses. Have positive Off-On switch except Model 331 has momentary "On" spring-return switch. All include lavalier cord and an adapter for a 3/4"-27 threaded stand. 4 1/2x1 1/4" sq. Wt., 1 lb.

**MODEL 332 CRYSTAL.** For high-quality tapes, P.A., etc. 30-15,000 cps. Output level, —57 db. High-impedance. Black, chrome.

90 S 211. List, \$17.90. NET.....10.52

**MODEL 331 CERAMIC.** For paging, Citizens Band, etc. Push-to-talk switch with provision for relay control, 300-5000 cps. Output, —56 db. High-impedance. Black and chrome. With hang-up bracket.

90 S 218. List, \$17.90. NET.....10.52

**MODEL 333 CERAMIC.** Similar to 332, but 30-12,000 cps. Output, —58 db.

90 S 219. List, \$17.90. NET.....10.52

**MODEL 335H DYNAMIC.** For top-quality reproduction. 50-12,000 cps. Output, —56 db. High-impedance. In TV gray and chrome.

90 S 220. List, \$26.50. NET.....15.58

**MODEL 335L DYNAMIC.** As above, but low-impedance and output is —57 db.

90 S 221. List, \$23.50. NET.....13.82

**MODEL A-7 DESK STAND.** For Series 330 mikes above. Black plastic, 5 oz.

90 S 253. List, \$2.45. NET.....1.44

**MODEL 150 CRYSTAL.** Top-value in a high-output crystal mike featuring smart, ultra-modern design. Offers a semi-directional pickup pattern and smooth, wide range frequency response. Stands upright on desk or table top—fits comfortably in palm of hand for convenient carry-about use. Attractively styled case is made of high-impact gray plastic with rigidized, gold metal grille. Unit is remarkably lightweight—only 3 1/2 ounces. Frequency response, 30 to 10,000 cps with 5-megohm load resistance. Output level, —44 db. Overall size, 2 3/4" high, 2 3/4" wide, 1 1/4" deep. With 5-foot single-conductor shielded cable. Shpg. wt., 1/2 lb.

90 S 250. List, \$6.50. NET.....3.82

**NEW MODEL 151 CERAMIC.** As above, but —48 db output; 30-8000 cps response.

90 S 222. List, \$6.50. NET.....3.82

**MODEL 10-C CERAMIC.** Semi-directional mike with "tailored response" feature. Designed for radio Amateurs using single sideband equipment. Provides greater intelligibility by reducing sideband to a minimum for clean signal with less splatter, and greater attenuation of unwanted sideband. Response, 300-3000 cps. Output, —52 db. 4x3 1/2"; 2" dia. With F-11 adapter, 5-ft., single-cond., shielded cable, 3/4 lb.

90 S 213. List, \$29.70. NET.....17.46

**MODEL 10-D DYNAMIC.** Same as 10-C (below, left) but moving-coil type. 1 lb.

90 S 214. List, \$39.70. NET.....23.34

**MODEL 10M5-A.** A rugged carbon mike for mobile, marine and aircraft use. Response is 100-4500 cps. Has heavy-duty press-to-talk switch, RF filter and a lightweight pressure-cast housing. Output, 2 db above 6 mw for 100 microbars. High-impedance. With 5-ft. 4-conductor coiled cord and hang-up bracket. 3 1/2x2 1/2x1 1/4". 1 1/4 lbs.

90 S 258. List, \$29.50. NET.....17.35

**MC-151 REPLACEMENT CARTRIDGE.** Exact-replacement crystal microphone cartridge for Astatic Models CX, CX-1, 200, 241, JT-30, JT-30F, JT-40 and T-3, 3 oz.

90 S 259. List, \$7.00. NET.....4.12

**MODEL T-3 "PIONEER" CRYSTAL.** Attractive high-impedance mike with swivel hinge to convert unit from semi to non-directional pickup. Withstands moisture and humidity. Response, 30-10,000 cps. Output, —52 db. 3/4"-27 thread. 6x2 1/2x3". 10-ft. cable, 2 lbs.

99 S 300. List, \$29.30. NET.....17.23

**MODEL G STAND.** For use with T-3, DN-SO, DN-HZ, D-104, 10-C, 10-D, 77-L and other mikes. 3/4"-27 thread. Has convenient grip-to-talk, slide-to-lock switch. Chrome and gray, 6-ft. cable, 2 1/4 lbs.

94 S 011. List, \$24.95. NET.....14.67



# VALUES in Top-Rated Name-Brand Microphones

From budget-priced general-purpose microphones to high-quality studio mikes, you'll find a microphone suited to your needs, listed

below. All are value-packed quality units built by well-known U.S. manufacturers with many years of experience and knowhow.

## Economical



## "Ceramikes"

**MODEL CM-10A "MATCHED TWINS".** A pair of de-nue ceramic mikes, acoustically-shed at the factory to capture the full range of sound, for live stereo taping. Response is from 50 to over 30 cps. Immune to extremes of tem- ture and humidity. Output, -56 db. irectional. High-impedance. In brushed me with gold-finished wire grille. 5/16" x 1 1/4" dia. Matching stands have pads and 3/8"-27 thread. With 7-ft. es and phone plugs, 8 lbs.  
**\$ 260.** List, \$36.75. **NET PER PR. 21.61**  
**MODEL CM-10A.** Similar to the matched s above, but designed for top-flight honic recordings, P.A. use, etc. With cable and phone plug. Less stand. g. wt., 2 lbs.  
**\$ 416.** List, \$17.50. **NET EA. 10.29**  
**MODEL CM-11A.** Similar to CM-10A above, has -53 db output for use where higher ls are required, 80-9000 cps.  
**\$ 418.** List, \$17.50. **NET EA. 10.29**

**MODEL CM-12.** Similar to CM-T10A but low-impedance and with handy "interrupt- er" button. 200-8000 cps. -56 db output. 18-ft. cable. 5/16"x1 1/4", 2 1/4 lbs.  
**90 \$ 261.** List, \$29.50. **NET. 17.95**  
**93 \$ 417.** CMS-10 STAND. Same as CM- T10A stands. 2 lbs. List, \$4.00. **NET. 2.45**  
**MODEL CM-17A "FLEX-MIKE."** Response, 50 to over 11,000 cps. Output, -56 db. 13" gooseneck table stand has removable mount- ing plate, 6-ft. shielded cable, 4 lbs.  
**90 \$ 263.** List, \$24.50. **NET. 14.41**  
**MODEL CM-30.** Push-to-talk type. Utilizes rugged high-impedance ceramic element for mobile use. 100-6000 cps. Output, -49 db. High-impact plastic case. With 6' coiled cord; mtg. bracket, 3x2 1/2". 1 lb.  
**90 \$ 262.** List, \$14.00. **NET. 8.23**  
**MODEL CM-32.** Economy hand-mike for tape recording. 80-9500 cps. -49 db output. With cord and plug. Shpg. wt., 1 lb.  
**90 \$ 272.** List, \$12.50. **NET. 7.35**



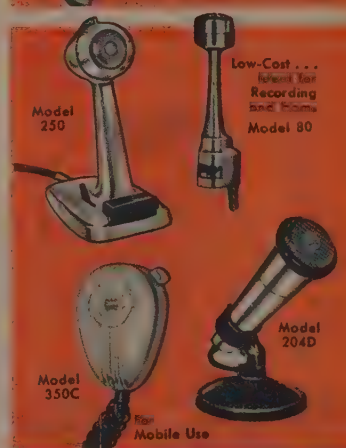
## Famous



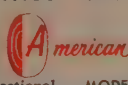
## Microphones

**MODEL 250.** Dynamic mike with both touch-lik switch and lift-to-talk feature—mike "on" when lifted, "off" when put on. 60-10,000 cps. High-impedance. Out- -54 db. Lift-switch can be defeated; also locks "on". Satin chrome. 20" and cable. 7/4x3 1/2"x5 1/2", 3 lbs.  
**\$ 200.** List, \$49.50. **NET. 29.11**  
**MODEL 80.** Low-cost, extra-compact high- dence crystal mike. Ideal for budget systems, etc. where a small, all-direc- al mike is required. Response, 80-7000 Output, -54 db, 4 1/4" long, 3/8" dia. shielded cable. Shpg. wt., 9 oz.  
**\$ 525.** List, \$15.95. **NET. 9.38**  
**MODEL 350C.** Low-cost push-to-talk ceramic r for mobile use. Has 80-7000 cps re- use at an output level of -54 db. High- dence. With hanger button and stand- dash mounting bracket, plus coiled cord l for relay operation; extends to 5-ft. h plastic case. 3 1/2"x2 1/2"x2", 1 lb.  
**\$ 267.** List, \$16.80. **NET. 9.88**

**MODEL 204D MICROPHONE PACKAGE.** A complete mike package featuring an ad- vanced-design high-impedance dynamic microphone that is ideally suited for P.A., Amateur use, tape recording and numerous other applications. Built for rough, con- tinuous service, the omni-directional 204D features a sturdy, die-cast casing finished in beautiful satin chrome.  
 Package includes: famous Model 204D dynamic mike; handy desk stand for paging systems, churches, classrooms, etc.; adapter for connecting microphone to any conven- tional floor stand; plus a lavalier assembly for suspending microphone from around neck to provide convenient "hands free" use—permits mobility.  
 Microphone has frequency response from 60 to 13,000 cps for natural full-range repro- duction of music or voice. Output level is -53 db. Supplied complete with 12-ft. shielded cable. Size, 5 1/4" long; 1 3/4" diameter. Shpg. wt., 2 lbs.  
**90 \$ 202.** List, \$47.50. **NET. 27.93**



## Popular



## Microphones

**MODEL D-22.** Studio-quality, all-directional e ideal for recording and general audio Response is 50-12,000 cps at an output of -55 db (at high impedance). Im- nance is easily switched between 50 and 300 ohms. "Slide-Lock" design permits tk stand removal for hand use. 25-ft. e conductor shielded cable has Cannon 3-11 plug at mike end; XL-3-50 recep- at other. 3/8"-27 thread, 3/4"x1 1/4" dia. aluminum case is gold and black. Less rd. Shpg. wt., 8 oz.  
**\$ 597.** List, \$99.50. **NET. 58.51**  
**MODEL X-208.** A modern, economical mike rially designed with Citizens Band ue mind. Has rugged, high-impedance ce- e element and semi-directional pattern educe unwanted sound pickup. Can be ll-held or placed on desk top. Frequency ce, 40-9000 cps. Output level, -58 db. tweight die-cast housing has gray en- Hammer tone finish. With 5-ft. sing- ector shielded cable. Size, 2x3 1/2"x1 1/2". g. wt., 10 oz.  
**\$ 266.** List, \$10.60. **NET. 6.23**

**MODEL X-206.** A low-cost crystal microphone offering the versatility of many mikes costing much more. An excellent choice for home recording, inexpensive paging systems, etc. Supplied with handy clip-on stand and cord so that it can be used on the desk, as a lavalier, or hand-held. Response, 40-12,000 cps. Output, -55 db. Has omni-directional pickup pattern. High-impedance. Styled in chrome and lustrous black plastic. With 6-ft. single-conductor shielded cable. 5 1/4" long; 1 1/4" dia. Shpg. wt., 5 oz.  
**90 \$ 265.** List, \$7.95. **NET. 4.67**  
**MODEL D-12.** High-quality, dynamic lavalier mike. Naturalness of pickup eases balancing problems and "Mylar" diaphragm guards against wind blast, temperature and pressure extremes. Response, 70-12,000 cps. Output, -57 db. Omni-directional pattern. Impedance is easily switched between 150 and 40,000 ohms. Die-cast aluminum case is satin charcoal gray. With lavalier cord, neck tie clip and 25-ft. 3-cond. cable. 3 1/2"x1 1/4" dia. Shpg. wt., 9 oz.  
**90 \$ 264.** List, \$59.50. **NET. 34.99**



# ATLAS MICROPHONE STANDS & BOOMS



## NEW! PROFESSIONAL BOOM STAND

With "Safety Air-Lock Cushion" to prevent accidental or sudden slippage of upright section

**MOBILE MODEL BS-36W.** Professional model with top features. Has "Safety Air Lock Cushion" in vertical section—controlled escapement of air permits slow and quiet collapse of upright section. Gyromatic swivel joint at mike end of boom for hanging mike in desired position. Boom length, 62". Adjustable vertical section extends from 48" to 72". Base has ball-bearing swivel casters of hard-rubber composition for wheeling entire stand to any position in the studio. All tubular sections are super-chrome plated; base in chrome and gun-metal gray; holding base, 17". Includes snap-on hangers for holding mike cable to boom. Wt., 40 lbs.  
90 SU 248-2. List, \$73.00. NET.....42.92

## SELECTED ATLAS MICROPHONE STANDS AND BOOMS

**MODEL CS-42 COLLAPSIBLE BASE STAND.** Base consists of three legs—permanently fixed to the stem—that can be quickly folded or unfolded and securely locked in place. Chrome-plated stand adjusts from 34" to 62"; has "velvet-action" clutch. Cast-iron base in gray.  $\frac{3}{4}$ "-27 thread. Wt., 9 lbs.  
88 SX 860. List, \$12.50. NET.....7.35

**MODEL MS-11C FLOOR STAND.** "Full Grip" clutch mechanism—allows stand to be quickly adjusted from 35" to 65". Base has self-leveling, shock-absorbing pads and "anti-tip" points. Chrome. Base dia., 10".  $\frac{3}{4}$ "-27 thread. Shpg. wt., 12 lbs.  
94 SX 012-2. List, \$13.00. NET....7.64

**MODEL MS-25 "AIR-LOCK" MIKE FLOOR STAND.** Controlled escape of air allows only slow, quiet collapse into lower section. Extends from 37" to 66". Base is 17" dia.; provides firm support for boom arm attachment. Chrome-plated stem. Gray base.  $\frac{3}{4}$ "-27 thread. Shpg. wt., 20 lbs.  
94 SU 029-2. List, \$26.00. NET.....15.29

**MODEL BB-1 "BABY BOOM" STAND ATTACHMENT.** Converts any floor stand having  $\frac{3}{4}$ "-27 thread to a boom-type stand. Permits fixed positioning of mike anywhere within 5-ft. circle. Heavily chrome-plated; 32" long. Adjustable counter-balance.  $\frac{1}{2}$ " lbs.  
94 SX 019. List, \$7.50. NET.....4.42

**MODEL BS-36 PROFESSIONAL BOOM STAND.** Similar to Model MS-25 (at left), but with removable 62" boom arm. Gyromatic swivel joint at end of boom allows mike to hang in the proper position regardless of how boom arm is moved. Vertical height adjusts from 48" to 72". Heavy, padded base; dia., 17". Chrome-plated. 33 lbs.  
94 SU 021-2. List, \$63.00. NET.....37.00

**MODEL CS-33 DEMOUNTABLE FLOOR STAND.** Chrome-plated, 3-section mike stand for portable uses. Fully collapsible; rubber-tipped legs are held in place with "finger-operated" spring lock. Adjusts from 26" to 64".  $\frac{3}{4}$ "-27 thread. Shpg. wt., 4 lbs.  
94 SX 016. List, \$13.50. NET.....7.92

## MICROPHONE DESK, BANQUET & SWITCHBOARD STANDS

**E-V 428 TOUCH-TO-TALK STAND.** Has  $\frac{6}{16}$ " touch-to-talk bar on side of stem with locking button at top. Slight pressure closes circuit. DPDT switch for controlling relay or shorting out the mike. Satin-chrome finish. Stem height, 7". Die-cast base; dia.,  $\frac{5}{16}$ ".  $\frac{3}{4}$ "-27 thread. Shpg. wt., 2 lbs.  
94 S 053. List, \$17.50. NET.....10.29

**ATLAS DS-5 DESK STAND.** Chrome-plated stem, 4" high. Cast-iron base; 6" diameter. Rubber pads.  $\frac{3}{4}$ "-27 thread. 2 lbs.  
94 S 077. List, \$3.00. NET.....1.76

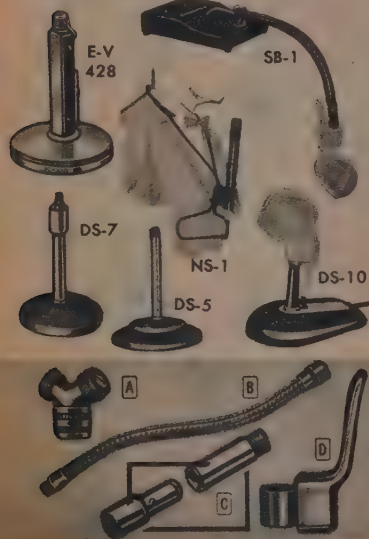
**ATLAS DS-7 ADJUSTABLE DESK STAND.** Clutch adjusts from 8" to 13". 2-section, chrome-plated stem uses  $\frac{3}{4}$ " and  $\frac{1}{2}$ " tubes. Gray crackle base, 6" diameter. Rubber base pads.  $\frac{3}{4}$ "-27 thread. Wt., 3 lbs.  
94 S 014. List, \$5.00. NET.....2.94

**ATLAS NS-1 "CHESTY" NECK AND CHEST SUPPORTED MIKE HOLDER.** Neck cord, no rolling chest support and removable gooseneck mike holder. Shpg. wt., 10 oz.  
93 S 729. List, \$5.00. NET.....2.92

**ATLAS TS-6 BANQUET STAND.** Not illus. If speaker's club. Extends from 14 1/2" to 26". Full-grip clutch. Base dia., 8", 6 lbs.  
94 S 024-2. List, \$9.00. NET.....5.22

**ATLAS SB-1 SWITCHBOARD STAND.** Support mike atop telephone or dispatcher's switchboards. Has 12" flexible gooseneck arm ( $\frac{3}{4}$ "-27 thread). Cast base,  $\frac{3}{16}$ "-27, 13 lbs.  
90 S 251. List, \$14.00. NET.....8.22

**ATLAS DS-10 DESK STAND.** Cable fits in slot under chrome trim. Gun-metal enamel finish.  $\frac{3}{4}$ "-27 thread. Wt., 1 1/2 lbs.  
94 S 073. List, \$5.00. NET.....2.92



## MICROPHONE ACCESSORIES



| Stock No. | Type  | Fig.               | Description                                              | Wt.     | EACH |
|-----------|-------|--------------------|----------------------------------------------------------|---------|------|
| 41 H 996  | A     | "V" Mike Connector | 2 oz.                                                    | .97     |      |
| 94 S 027  | GN-13 | B                  | Flexible 13" Gooseneck                                   | 1 lb.   | 1.62 |
| 94 S 075  | GN-19 | B                  | As above, 19" long                                       | 1½ lbs. | 2.35 |
| 94 S 017  | SO-1  | C                  | Snap-on Mike Attachment                                  | 1 lb.   | 1.62 |
| 94 S 076  | CH-1  | D                  | Cable Hanger; fits all stems<br>7/16" to 1¼" in diameter | ¾ lb.   | 1.47 |
| 41 H 946  | 329   | E                  | Mike Volume Control; Hi-imp.                             | 6 oz.   | 4.09 |
| 41 S 913  | AD-7  | F                  | 3" Extension Rod; ¾"-27 ends                             | 3 oz.   | .38  |
| 41 S 907  | AD-8  | F                  | As above, 6" long                                        | 4 oz.   | .44  |
| 41 H 950  |       | G                  | Push-to-Talk Switch with lock                            | 6 oz.   | 1.89 |
| 41 S 995  |       | H                  | "Save-Ur-Mike" Plastic Cover                             | 2 oz.   | .69  |
| 94 S 028  | BC-1  | J                  | Bracket Clamp; 6" stem                                   | 1 lb.   | 2.06 |
| 94 S 067  | SW-1  | H                  | Gyromatic Mike Lock Swivel                               | 1½ lbs. | 2.65 |

**ATLAS MIKE STAND ADAPTERS.** For desk and floor-type microphone stands. All are chrome-plated. Shpg. wt.: Models AD1, AD2, AD3, AD4, AD5, and AD10, 2 oz.; AD11 and AD12, 6 oz.

| Stock No. | Type | Fig. | Description                                                                | EACH |
|-----------|------|------|----------------------------------------------------------------------------|------|
| 41 S 928  | AD1  | L    | For adapting RCA mikes. $\frac{1}{2}$ " male to $\frac{3}{4}$ "-27 female. | 50   |
| 94 S 060  | AD2  | K    | $\frac{1}{8}$ " pipe female to $\frac{3}{4}$ "-27 male.                    | 35   |
| 94 S 061  | AD3  | M    | $\frac{1}{8}$ " pipe female to $\frac{3}{4}$ "-27 female.                  | 35   |
| 94 S 062  | AD4  | ...  | $\frac{3}{4}$ " long. $\frac{3}{4}$ "-27 male coupling.                    | 18   |
| 94 S 063  | AD5  | M    | $\frac{3}{4}$ "-27 to $\frac{3}{4}$ "-27 female coupling.                  | 35   |
| 94 S 066  | AD10 | ...  | Adapts W.E. mikes. $\frac{3}{4}$ "-24 female to $\frac{3}{4}$ "-27 female. | 71   |
| 41 S 906  | AD11 | P    | Mike base flange. Female. $\frac{3}{4}$ "-27.                              | 41   |
| 41 S 905  | AD12 | N    | Mike base flange. Male. $\frac{3}{4}$ "-27.                                | 41   |



# CONNECTORS, CABLES, MIXERS

SWITCHCRAFT  
MICROPHONE MIXERS



306

## AMPHENOL MIKE CONNECTORS

ES 75 SINGLE-CONTACT TYPES. Standard 27 threads. 75-MC1F fits all Knight amplifiers. When splicing 2 cords, use 75-MC1F (as plugs or jacks). 3 oz.

| K. No. | Fig. | Type    | Description        | NET |
|--------|------|---------|--------------------|-----|
| 958    | A    | 75-MC1F | Plug or Jack       | .44 |
| 955    | B    | 75-MC1M | Plug               | .40 |
| 962    | C    | 75-MC1P | Phone Plug Adapter | .48 |

ES 91—3-CONTACT TYPES. For portable microphones. Polarized to prevent incorrect insertions. Wt., 3 oz.

|     |   |         |                   |     |
|-----|---|---------|-------------------|-----|
| 970 | D | 91-MC3F | Female Cable Jack | .85 |
| 971 | E | 91-MC3M | Male Cable Plug   | .88 |

## ANNON STRAIGHT-CORD PLUGS

Re-contact audio connectors with clamps resilient socket insulator. Satin-nickel finish; push-action, latch-lock. Each contact 15 amps. Av. wt., 4 oz.

|     |   |           |               |      |
|-----|---|-----------|---------------|------|
| 790 | F | XLR-3-11C | Female Socket | 1.29 |
| 791 | G | XLR-3-12C | Male Pin      | 1.13 |

## SHIELDED MIKE CABLES (Not Illus.)

Shield-Conductor—For High-Impedance Mixes

| O.D. Wt.        | 50-Ft. Spool | No.  | NET      | No.  | Per 100' |
|-----------------|--------------|------|----------|------|----------|
| 200' 2 1/4 lbs. | 47 T 563     | 2.30 | 47 W 564 | 4.21 |          |
| 245' 4 lbs.     | 47 T 449     | 3.82 | 47 W 444 | 7.20 |          |
| 144' 1 1/4 lbs. | 47 T 603     | 1.71 | 47 W 604 | 3.09 |          |

Conductor—For Low-Impedance Mixes

|                 |          |      |          |       |  |
|-----------------|----------|------|----------|-------|--|
| 285' 1 1/4 lbs. | 47 T 467 | 5.29 | 47 W 468 | 10.29 |  |
| 231' 1 lb.      | 47 T 455 | 3.18 | 47 W 456 | 5.73  |  |

## MIKE EXTENSION "PLUG-IN" CABLES

Easy, convenient way to add extra lengths of cable to mikes equipped with cable connector. Simply unplug present cable from mike—plug in extension cable—connect your old cable to free end of extension. Each is 25 ft. long; 2-cond. shielded. Wt., 1 1/4 lbs.

| Stock No. | Type   | Fig. | Description                           | NET  |
|-----------|--------|------|---------------------------------------|------|
| 90 S 268  | 87AU87 | J    | 75-MC1F each end.                     | 2.94 |
| 90 S 269  | 87AU84 | J    | 75-MC1F; other end stripped, flanged. | 2.50 |
| 90 S 270  | 91BU92 | K    | Cannon XLR-11 and XLR-12 plugs.       | 7.35 |
| 90 S 271  | 93BU94 | L    | Amphenol MC3M and MC3F plugs.         | 5.68 |

## MINI-MIX AUDIO MIXERS

Accommodate 2 high-impedance sources. With separate gain controls recessed inside housing. Very low loss factor. Size, 2 1/2 x 1 1/2 x 1 1/4". Shpg. wt., 4 oz.

TYPE 310. Phone jack input, phone plug output fitting standard jacks.

41 H 953. NET.....4.67

TYPE 311. As above, but with longer output to fit recorders with recessed jacks.

41 H 988. NET.....5.26

TYPE 316. Miniature unit with pin jack input and pin plug output.

41 H 343. NET.....4.67

TYPE 320. Male inputs, female output for 3/16"-27 screw-type mike connectors.

41 H 954. NET.....4.67

## STEREOPHONIC MIXERS

MODEL 306. Extremely versatile mike mixer with four monophonic channels that convert to 2-stereo channels with flip of handy lever switch. Perfect for providing stereo music accompaniment to narration of your home movies. Four input jacks on rear panel; high impedance circuitry. Two phono jacks for output to amplifier or tape recorder. Size, 2x3x6". Shpg. wt., 1 1/4 lbs.

93 S 218. List, \$22.50. NET.....13.23

MODEL 306TR. Same as above, but with two battery-operated transistor amplifiers. With battery. Shpg. wt., 1 1/4 lbs.

93 S 219. List, \$37.50. NET.....22.05

## MONOPHONIC MIXERS

MODEL 301. (Not illustrated.) Similar to 306. Shielded 4-channel, high-impedance mixer. Permits mixing of four signals such as mike, phono, tuner, etc., into a single output. Inputs accept std. 2-cond. phone plugs; std. phono jack output to tape recorder or amplifier. 2x3x6". Wt., 1 1/4 lbs.

93 S 216. List, \$19.50. NET.....11.47

MODEL 301TR. As above, but with battery-powered transistor-amplifier. With battery. 93 S 217. List, \$30.00. NET.....17.64

41 H 341. Audio Connector Cable. For mixers above. 36" long; phono pin plug on one end, phone plug on other. 4 oz. NET.....88 c

# BOGEN "Challenger" Intercommunications System

## CHALLENGER "FUTURA" INTERCOM

MASTER SYSTEM. A top-value intercom system using up to 6 CHM6A or up to 12 CHM12A Masters. Any Master can call any other, and, in a CHM6A system, all simultaneously. Masters have one control, press-to-talk button and selector switch with "mute" position. 2 tubes, 1 selenium rectifier; printed circuitry. Size, 5 1/2 x 4 1/2 x 4 1/2". Less cable (see below)—use cable with one more connector than the number of stations; measure from station 1 to 2, 3, etc. For 110-120 v., 50-60 cycle AC or DC.

REMOTE SYSTEM. Consists of one CHM6A Master and up to 11 Remotes, or one CHM12A Master and up to 11 Remotes. (In types of Master Units are described above.) Master can call Remote, and in a CHM6A system, all simultaneously. Remotes press-to-talk bar, but can also be used for non-private operation (controlled by jumper). "Mute" position on Master silences back and noise from Remotes. Remotes can still originate calls to Master. Size of Remotes, 3 1/2 x 5 1/2 x 3 1/4". Less cable (see below)—3-cond. cable between Master and each Remote.

INTERMIX SYSTEM. CHX12 Intermix Master Stations are used in pairs consisting of a total of 12 stations in any combination of Masters and Remotes. Use either CHR or CHX-R remotes in the intermix system. The CHX-R Remote permits initiating calls to one of 6 CHX12 Masters; CHR can initiate calls to only one Master. An excellent choice for flexibility at moderate cost.

DEL CHM6A 6-STATION MASTER. Shpg. wt., 5 lbs. \$32.25

DEL CHM12A 12-STATION MASTER. Shpg. wt., 5 lbs. \$33.80

DEL CHR REMOTE. Can be used to originate a call to one Master or can be called by any Master. Shpg. wt., 1 1/2 lbs. \$8.40

DEL CHX-12 INTERMIX MASTER. Permits mixing of up to 12 stations using any combination of Masters and Remote stations. Shpg. wt., 5 lbs. \$38.85

DEL CHX-R INTERMIX REMOTE. Can originate calls to any one of 6 Masters. Has 6-position switch. Shpg. wt., 2 lbs. \$17.20

DEL CHR REMOTE. Can be used to originate a call to one Master or can be called by any Master. Shpg. wt., 1 1/2 lbs. \$8.40

## CABLE FOR BOGEN INTERCOMS

W 825. 3-Cond. Cable Per 100-Ft. 2 lbs. NET.....5.08

W 759. 8-Cond. Cable Per 100-Ft. 4 1/2 lbs. NET.....4.26

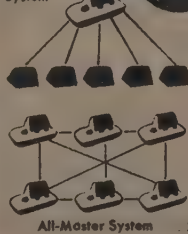
W 898. 22-Cond. Cable Per 100-Ft. 8 lbs. NET.....10.73

Bogen

CHM6A,  
CHM12A  
Masters

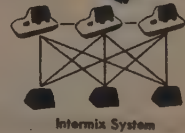
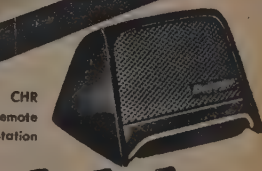


Master-Remote  
System



All-Master System

CHR  
Remote  
Station



Intermix System

## NEW! "TWIN-COM" 2-STATION TRANSISTORIZED SYSTEM

MODEL TIA-2. Consists of Master, Remote, 50-ft. cable. Private or non-private use—Master and Remote have talk-listen bar. Size, 3 1/2 x 5 1/2 x 3 1/4". For 110-120 v., 60 cycle AC. Wt., 3 lbs.

90 R 620. List, \$54.95. NET....32.95

MODEL TIB-2. Same as TIA-2, but battery-operated. Less battery, below.

90 R 621. List, \$49.95. NET....29.95

80 J 664. Burgess 2U6 Battery. NET 99 c



TIA-2 System

Allied is Headquarters for Those Hard-To-Find Sound System Accessories

# NEW Built-In Home Radio-Intercoms by NuTone

## NUSTONE ACCESSORIES

DELUXE  
FM-AM  
MASTER

DELUXE  
AM  
MASTER

### "ECONOMY" COMBINATION Complete 5-Station AM System

DELUXE 2026

2020-B

ECONOMY 2025

2006

## DELUXE NEW FM-AM "BROADCASTER"

MODEL 2058. This magnificently styled radio-intercom Master station distributes FM or AM programs to up to 10 individually selected Remotes—and Remote stations can originate calls and converse with one another. Automatically lowers music volume during calls. Transistorized intercom amplifier assures silent, hum-free background; has phono input, tone control, 4x8" speaker. Installation is easy—you can do it yourself! Copper-anodized aluminum panel is 15 $\frac{1}{4}$ x10", extends 2 $\frac{1}{16}$ " from wall; box is 7 $\frac{1}{2}$ x14 $\frac{1}{4}$ ", fits the new 2" walls. 8 tubes, 1 transistor. With antenna wire; less Remotes (right). For 110-120 v., 50-60 cycle AC. Shpg. wt., 16 lbs.

90 RX 633. NET.....111.00  
90 RX 634. Model 2057. As above, but silver-anodized panel. NET.....111.00

## DELUXE NEW AM "BROADCASTER"

MODEL 2053. Same as 2057 above, but AM only. Radio features high sensitivity, virtual immunity to fluorescent light interference. Silver anodized panel. 9 $\frac{1}{2}$  lbs.

90 RX 638. No Money Down. NET.....61.22

## NEW "ECONOMY" MODEL 2031 AM RADIO-INTERCOM SYSTEM

Priced to easily fit your budget, the 2031 is a complete 5-station music distribution and intercom system that "broadcasts" AM radio programs to any room and even outside—all Remotes can converse with one another and originate calls—housewives can talk to strangers without opening the door! Inside stations have volume controls and privacy switch to avoid "eavesdropping." Master has phono input; 8 slide-switches al-

low easy addition of four more Remote stations. System includes: Master; 3 Model 2025 Inside Remotes; 1 Model 2006 Door Remote; 200' 3-cond. cable; antenna wire. Master has 16x8 $\frac{3}{4}$ " Colonial copper-finished front panel that extends 1 $\frac{1}{2}$ " out from the wall; box is 7 $\frac{1}{2}$ x14 $\frac{1}{4}$ x1 $\frac{1}{4}$ ". Remotes as described below. For 110-120 v., 50-60 cycle AC. Shpg. wt., 21 lbs.

90 RX 639. No Money Down. NET 73.20

## NUSTONE REMOTE STATIONS & ACCESSORIES

2026 DELUXE INDOOR REMOTE. Beautifully styled Remote station in Desert Sand with gold trim. Flush wall mounting. With 5" speaker, volume control, privacy switch. Panel, 8 $\frac{3}{4}$ x6 $\frac{1}{2}$ "; rough-in box, 8 $\frac{1}{2}$ x5 $\frac{1}{4}$ x1 $\frac{1}{4}$ ". Shpg. wt., 2 $\frac{1}{4}$  lbs.

90 RX 635. NET.....6.24

2025 ECONOMY INDOOR REMOTE. Has handsome Desert Sand finish. With 4" speaker, volume control, privacy switch. Flush mounting. Panel size and rough-in box, same as above. Shpg. wt., 2 $\frac{1}{4}$  lbs.

90 RX 636. NET.....5.50

2004 DOOR REMOTE. Gold-anodized. Lister talk switch; 3" speaker. Panel, 4 $\frac{1}{2}$ x5 $\frac{1}{4}$ " rough-in box, 5 $\frac{1}{2}$ x4 $\frac{1}{2}$ x1 $\frac{1}{4}$ ". 1 $\frac{1}{4}$  lbs.

90 RX 637. NET.....5.50

90 RX 642. 2020-B Hi-Fi Remote. 8" cone spkr. Walnut. Gold. 5 $\frac{1}{2}$  lbs. NET.....14.40

90 RX 643. 2411-A Rough-In Frame. For above. 12 $\frac{1}{2}$ x20". 1 $\frac{1}{4}$  lbs. NET.....1.60

## 3-CONDUCTOR INTERCOM CABLE

90 RX 640. 200' Roll. 2 lbs.....4.90

90 RX 641. 1000' Roll. 4 $\frac{1}{2}$  lbs.....17.90

# TALK-A-PHONE All-Transistor

## Intercom and Music System

### UP TO 16 STATIONS

Step-Saving and Time-Saving...  
All Components U.S. Approved

HI-9R  
with HI-SM

HI-2 Indoor Sub

HI-1 Outdoor Sub

## SYSTEM OUTLINE—CENTRAL MASTER AND STAFF UNITS

Up to 16 stations can be used in Talk-A-Phone's deluxe all-transistor radio-intercom system. Each system requires a Central Master unit and either a 4F6H battery or an HI-PS AC power supply. Besides the Central Master, other stations may be any combination of Staff units and Indoor or Outdoor Subs. Staffs, and Central Master(s), can originate calls to and converse with any station. Subs do not originate calls, but can talk with any station except another Sub. All units except Outdoor Subs feature private or non-private operation. Stations set for private use must press switch to be heard; in non-private use a station need not press its switch to be heard. Outdoor Subs are non-private. HI-9R Central Master, if used, lets any station except Outdoor Sub hear AM radio programs. Gold and satin-silver panels. Flush mounting. Central Master, Staffs include 4 $\frac{1}{2}$ x14 $\frac{1}{4}$ x3 $\frac{1}{2}$ " plaster rings. Masters have 15 $\frac{1}{4}$ x5 $\frac{1}{4}$ " panel. HI-9 Central Master. 8-station capacity. Wt., 7 lbs.

93 RX 241. List, \$99.50. NET.....58.00

HI-17 CENTRAL MASTER. As above, but 16-station capacity.

90 RX 626. List, \$146.00. NET.....85.50

HI-9R CENTRAL MASTER. Like HI-9; with AM radio. 8 lbs.

93 RX 242. List, \$154.00. NET.....89.50

HI-8 STAFF. 8-station capacity. Shpg. wt., 7 lbs.

90 RX 244. List, \$54.00. NET.....31.50

90 RX 627. HI-16 STAFF. For 16 stations. List, \$99.95. NET.....58.50

## SUB-STATIONS, SYSTEM ACCESSORIES AND CABLE

Outdoor Sub has illuminated name-plate and pushbutton for hook to doorbell. Subs do not require plaster mounting ring—mount 2" sq. x2" deep wall opening. Housing Assembly lets Central Master or Staff unit be placed on table, or wall or cabinet-mounted. A supply, if used, is only unit in system requiring AC outlet. Junction boxes for: \*8 stations; †16 stations.

| Stock No. | Type    | Description      | Size                                                 | Wt.                  | List    | NET   |
|-----------|---------|------------------|------------------------------------------------------|----------------------|---------|-------|
| 93 R 245  | HI-1    | Outdoor Sub      | 5 $\frac{1}{2}$ x3 $\frac{1}{2}$ "                   | 1 $\frac{1}{2}$ lbs. | \$27.50 | 15.50 |
| 93 R 246  | HI-2    | Indoor Sub       | 5 $\frac{1}{2}$ x3 $\frac{1}{2}$ "                   | 1 $\frac{1}{2}$ lbs. | 27.50   | 15.50 |
| 93 R 247  | HI-SM   | Housing Assembly | 6x15 $\frac{1}{2}$ x4"                               | 2 $\frac{1}{2}$ lbs. | 19.00   | 11.00 |
| 93 R 248  | HI-J88  | Junction Box*    | 1 $\frac{1}{2}$ x2 $\frac{1}{2}$ x4"                 | 1 lb.                | 7.00    | 4.00  |
| 90 R 628  | HI-J816 | Junction Box*    | 1 $\frac{1}{2}$ x17 $\frac{1}{2}$ x8 $\frac{1}{2}$ " | 2 lbs.               | 9.95    | 5.50  |
| 93 R 249  | HI-PS   | AC Power Supply  | 3 $\frac{1}{2}$ x2"                                  | 5 lbs.               | 27.50   | 15.50 |
| 53 J 033  | 4F6H    | 9 v. Battery     | 8 $\frac{1}{2}$ x4 $\frac{1}{2}$ x5 $\frac{1}{2}$ "  | 9 lbs.               | 7.50    | 5.50  |

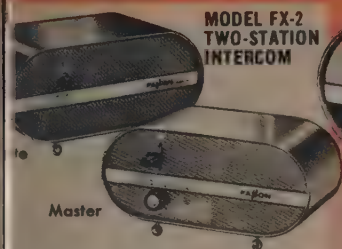
CABLE REQUIREMENTS. Central Master & Staffs: Use 6226 cable. Measure from 1st unit to 2nd, 2nd to 3rd, etc., and total. Or, use a junction box, which may be placed anywhere, and measure from each station to junction box. Subs: Connect to nearest Staff or Central Master. Use 6206 cable for Indoor Sub, 6202 for Outdoor Sub. Battery or power supply: Connect to Central Master with 6202 cable.

49 W 615. 6226 CABLE. 12 lbs. per 100'. NET PER FT.....28.00

49 W 621. 6202 CABLE. 4 lbs. per 100'. NET PER FT.....3.50

49 W 622. 6206 CABLE. 3 lbs. per 100'. NET PER FT.....8.00



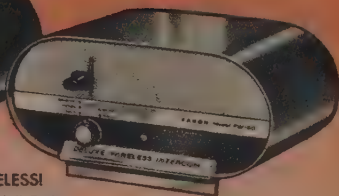


**MODEL FX-2  
TWO-STATION  
INTERCOM**

Master



Versatile . . . Low-Cost  
U.L. Approved



IT'S WIRELESS!  
Just Plug into Wall Outlet

ote Unit Requires No Power  
erwriter's Approved

## MODEL FW-50 READY-TO-USE 2-STATION SYSTEM

ONLY  
**\$56.25**

**NO MONEY DOWN**  
Requires No Wiring—  
Will Operate Between  
Adjacent Buildings

A complete, wireless 2-station deluxe intercom system that requires no installation of any kind. Just plug each station into any AC or DC outlet and system is ready to use. One unit can even be placed in child's room

and the other carried to a neighbor's home—operates between nearby buildings that are on the same electric-company line transformer. Has power-line noise silencing control. 3 tubes plus rectifier and diode detector. Has Talk-Listen-Dictate switch. Hand-some brushed-brass cabinets are each 4x8x4". For 110-120 v., AC-DC, 7 lbs.  
**92 RX 640, List, \$74.50, NET. . . . . \$6.25**  
**FW-51 EXTRA STATION, Wt., 3½ lbs.**  
**92 R 641, List, \$37.95, NET. . . . . \$2.50**

budget-priced intercom system offer-  
art styling and crystal clear, depend-  
ommunications. Outfit includes  
Remote and 50-ft. of 3-conductor  
more cable can be added, see 47 W  
low right.) Remote station requires  
er—can be placed anywhere. Remote  
to answer calls from a distance with-  
ing Talk-Listen switch—an excellent  
for listening in on child's room.  
ome, two-tone gray and white cabi-  
e 4x8x4". For 110-120 volts, 50-60  
Cor DC, Shpg. wt., 6 lbs.  
**914, List, \$27.95, NET. . . . . \$20.95**  
**RA REMOTE, Use 3-conductor cable**  
**right) to Master, 2 lbs.**  
**23, List, \$9.95, NET. . . . . \$7.50**

## ESS "BABY-COM" INTERCOM



du Monitor  
y Through Any Radio

RB-1. A wireless, low-cost "elec-  
baby-sitter." Just plug unit into any  
outlet and you can hear your  
voice through any AM radio. Com-  
portable—no installation of any  
you can use it anywhere in your  
or while visiting or vacationing. High-  
light, the RB-1 will pick up the slight-  
hounds. Attractive blue cabinet has  
face-panel, 4½x6½x4½". For 110-  
50 cycle AC-DC, 4 lbs.  
**970, List, \$18.60, NET. . . . . \$13.95**



Beautifully  
Styled

FC-A Remote

FX-12A Master

## "MANAGER" SERIES INTERCOMS

### SPECIAL OFFER!

Order six FX-6A Masters, and save \$2.45 on each unit. You get six stations for only \$111.00!

Reg.  
**\$125.70 SAVE \$14.70**

**ALL-MASTER SYSTEM.** Consists of up to 6 FX-6A (or 11 FX-12A) Masters—up to 3 (or 5) private conversations can be held at once. Units can talk with any combination of other stations. FX-12A's can call all stations at once. FX-6A's use 7-cond. cable; FX-12A's use 1 twisted pair per Master.

**MASTER-REMOTE SYSTEM.** Consists of an FX-6A Master and up to 5 Remotes, or an FX-12A and up to 10 Remotes. Remotes cannot talk with one another. FX-6A's use 3-conductor cable from Master to each Remote; FX-12A's use 1 shielded cable plus 1 conductor for each Remote in the system.

All units are gray and white; 4x8x4". For 110-120 v., 50-60 cycle AC. Less cable.

**FX-6A 6-STATION MASTER, 3½ lbs.**  
**93 R 425, List, \$34.95, NET. . . . . \$20.95**

**FX-12A 12-STATION MASTER, 4 lbs.**  
**93 R 426, List, \$37.50, NET. . . . . \$22.50**

**MODEL FC-A REMOTE, 2 lbs.**  
**93 R 427, List, \$13.25, NET. . . . . \$7.97**

**INTERCOM CABLE, Indoor-outdoor type.**  
Measure from 1st-2nd unit, 2nd-3rd, etc.

| Stock No. | Conductors  | Lbs. Per 100' | Per 100' |
|-----------|-------------|---------------|----------|
| 47 W 793  | 1; shielded | 1½            | 3.09     |
| 47 W 362  | 3           | 2             | 2.43     |
| 47 W 322  | 7           | 4             | 6.03     |
| 48 W 894  | 18          | 6½            | 7.94     |

## NEW! FANON TELEPHONE INTERCOM SYSTEM

**MASTER SYSTEM.** Max., 11 phones. Full range. Permits as many 2-way channels as there are pairs of phones.

**MASTER-REMOTE SYSTEM.** Max. system: 1 Master, 10 Remotes. Has single, common line but Master can still intercom-Remotes, set up conferences.

**MIX SYSTEM.** Allows use of multiple lines. Each Master accepts up to 11 Remotes no. of Masters in system.

**REQUIREMENTS.** All-Master: 1 twisted-pair, plus 1 additional pair per phone. Master-Remote: 3 conductors, plus 1 additional conductor per phone. Intermix: Combination of Master & Master-Remote.

**1010 MASTER.** Coiled cord. Pearl gray plastic case, 5x7½x5¼". Requires 6-8 v. DC (see below, Shpg. wt., 4 lbs.  
**90 R 623, List, \$74.95, NET. . . . . \$44.95**

**101 REMOTE.** Similar in appearance to above, but less dial. Wt., 3½ lbs.  
**90 R 624, List, \$47.50, NET. . . . . \$28.50**

**90 R 625. PSA POWER SUPPLY.** One required for every 6 phones. For 110-120 v., 50-60 cycle AC, 8 lbs. List, \$29.95, NET \$17.95



These easy-to-use multi-channel telephone intercom systems do not require switchboards. Dial-operated Masters handle switching plus selective ringing and talking

### CABLE FOR ALL-MASTER SYSTEM

| Stock No. | Pairs | Lbs. Per 100' | Per Ft. | 100' or more Per 100' | Cond. | Lbs. Per 100 | 100-Ft. Spool |      |
|-----------|-------|---------------|---------|-----------------------|-------|--------------|---------------|------|
|           |       |               |         |                       |       |              | Stock No.     | NET  |
| 492       | 3     | 3½            | 5¢      | 3.82                  | 4     | 2½           | 47 T 370      | 2.94 |
| 493       | 4     | 4             | 5¢      | 4.26                  | 5     | 2½           | 47 T 380      | 3.63 |
| 494       | 5     | 4½            | 5¢      | 5.68                  | 6     | 4            | 47 T 310      | 5.29 |
| 495       | 9     | 6½            | 9½¢     | 7.94                  | 7     | 4½           | 47 T 320      | 6.03 |
| 496       | 11    | 8             | 13¢     | 10.73                 | 8     | 4½           | 47 T 330      | 6.27 |
| 497       | 13    | 11            | 15¢     | 12.15                 | 9     | 5            | 47 T 340      | 7.01 |

Depend on Allied for All Your Intercom Needs



# Famous **TALK-A-PHONE** Intercoms

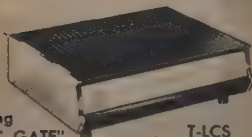
## TALK-A-PHONE Wireless Selective Systems

### ALL-MASTER SYSTEM



T-LCM

**WIRELESS . . .  
SELECTIVE**



T-LCS

Featuring  
"SONIC GATE"



Your voice goes through while hum and line noise are screened out. Full 30-db suppression in operation or stand-by.

Any Master can selectively call any of 5 other Masters. If more than 6 Masters are in system, several will hear the same message. As many as 3 private conversations can be held separately. Also permits conference calls. All Stations plug into outlets—must be on same power-company line

Consists of one or more T-LCM-8806 Masters (above) and as many Auxiliaries (at right) as desired. Auxiliaries are on fixed channel; Masters can be on any channel. Auxiliaries can reply, but not originate. Last digit in Type no., shows channel.  $3\frac{1}{2} \times 10\frac{1}{2} \times 8\frac{3}{4}$ . For 110-120 v., 50-60 cycle AC. DC. Shpg. wt., 7 lbs.

transformer. Styled in leather-texture gray vinyl and brushed chrome.  $3\frac{1}{2} \times 10\frac{1}{2} \times 8\frac{3}{4}$ . For operation from 110-120 v., 50-60 cycle AC-DC. Shpg. wt., 13 lbs.

MODEL T-LCM-8806 MASTER.  
93 RX 071. List, \$136.00. NET...79.50

### MASTER-AUXILIARY SYSTEM

93 RX 072. T-LCS-801.  
93 RX 073. T-LCS-802.  
93 RX 074. T-LCS-803.  
93 RX 075. T-LCS-804.  
93 RX 076. T-LCS-805.  
93 RX 077. T-LCS-806.

List Each,  
\$77.00.  
NET EACH,  
45.00

### 2-STATION WIRELESS SYSTEM

TYPE T-LC-33. Just plug each station into wall outlet on same power-company line transformer and you have instant communication. "Uni-Trans" switch lock for continuous transmission, permits dictating or listening. Vinyl and brushed chrome finish.

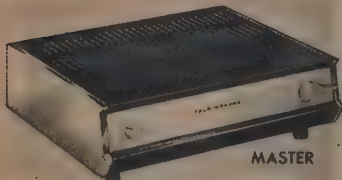
Each unit,  $3\frac{1}{2} \times 10\frac{1}{2} \times 8\frac{3}{4}$ . For 110-120 v., 50-60 cycle AC-DC. Shpg. wt., 16 lbs.  
92 RX 668. List, \$138.00  
NET PER PAIR.....79.90

T-LC-17. ADDITIONAL STATION. 8 lbs.  
92 RX 669. List, \$69.00. NET.....39.90

### SELECTIVE AREA PAGING

A wireless Master-Auxiliary intercom system provides selective area paging for commercial and industrial operations—without installation costs that usually run well into four figures. Several Channel 1 Auxiliaries could be placed in the sales room, several Channel 2 units in the stock area, several Channel 3 Auxiliaries in the service department etc. Master station could then page any desired area.

## TALK-A-PHONE T-LC-2 Two-Station System



MASTER

**COSTS BUT A FRACTION  
OF A CENT PER DAY TO USE**



SUB-STATION

Ruggedly-constructed, gracefully styled 2-station intercom system—deluxe combination provides everything necessary for 2-way communication. Gives dependable service in office, home, farm or factory. Complete system includes one Master unit, one Sub unit and 50 ft. of interconnecting cable (more can be added—up to 2000 ft.). Both Master and Sub can originate calls to each other and carry on a 2-way conversation. Sub unit can be set for either private or non-private operation. When Sub is set for private operation, Master can not listen-in to Sub station; when non-private, persons at Sub station can answer calls at a distance without operating controls. Only the Master station needs to be connected to an AC outlet. Master is equipped with volume control and pilot light, which indicates when unit is "on". In modern custom design cabinets constructed of rigid steel. Master is finished in tasteful charcoal gray vinyl, with side panels in brushed chrome. Impervious even to industrial liquids and atmospheres. Sub is finished in colors that match Master, but

has a highly attractive baked enamel finish. Unit sizes: Master station,  $3\frac{1}{2} \times 10\frac{1}{2} \times 8\frac{3}{4}$ . Sub station,  $3\frac{1}{2} \times 7\frac{1}{2} \times 8\frac{3}{4}$ . Underwriter Laboratories Approved. For operation from 110-120 volts, 50-60 cycle AC or DC. Shpg. wt., 13 lbs. No Money Down.

92 RX 665. List, \$62.00. NET...36.00

EXTRA REMOTES FOR ABOVE. MODEL T-LR-3M. Shpg. wt., 6 lbs.

92 RX 674. List, \$21.00. NET...11.90

TYPE 5303 EXTRA INTERCONNECTING CABLE FOR ABOVE. System above is supplied with 50-ft. of three-conductor cable—up to 2,000 ft. more can be added without affecting operation of system. Wt., per 100', 3 lbs.  
49W 604. NET PER FOOT.....30

MODEL T-W1 WALL MOUNTING BRACKETS. For mounting Sub stations on wall. Two mounting brackets are required to mount each station. Supplied complete with all hardware, etc. Shpg. wt.,  $\frac{1}{2}$  lb.  
93 R 049. List, \$1.25. NET PER PAIR. 75

## NEW Guardian Transistorized Wireless Intercom



Just Plug-in  
and Talk

No Warm-up  
Required

**WIRELESS . . .  
TRANSISTORIZED**

Embodying the most advanced features for superior performance and dependability, this fully transistorized intercom system is equally at home in offices, plants, institutions or in the home. System includes two stations—plug into any AC wall outlets on the same power-company line transformer.

Advanced, 4-transistor, 2-diode circuit is cool and trouble-free—draws less current than an electric clock. System is ready for operation just as soon as it is plugged in—no warmup required. Lightweight and compact—weighs only  $1\frac{1}{2}$  lbs.—it can easily be carried from room to room in the home.

Among its design features are the built-in squelch circuit which suppresses line noise, hum and interference; extra-heavy PM speaker for excellent response; volume control to adjust level; plus adjustable frequency provision that permits operation of up to three independent wireless intercom systems in close proximity.

Two-way conversation with any number of stations (for additional stations, see listing below). Switch with "Listen" position and press-to-"Talk". Handy "Lock" feature holds control in "Talk" position—allow you to keep hands free while talking, or to use unit as a "baby sitter". Rugged, durable case is constructed of sturdy, high impact styrene. Advanced contemporary styling and tastefully finished in attractive deer sand. Size of each unit,  $4\frac{1}{2} \times 4\frac{1}{2} \times 5\frac{1}{2}$ . For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 5 lbs.

Two Station Set.  
90 RX 629. List, \$74.50. NET...54.90

EXTRA STATION. Any number of additional stations may be added at any time. Identical in size and style to stations listed above. Shpg. wt., 3 lbs.

90 R 630. List, \$37.25. NET...27.50

WALL MOUNTING BRACKET. Shpg. wt., 3 oz.

90 R 631. List, .50. NET.....39



# Deluxe TALK-A-PHONE Systems

## MASTER-SELECTIVE Systems

**RD-POWER MASTERS AND SUBS.** For Master Selective system consisting of one (only) and up to 10 Sub stations. Can call and listen to one, several or simultaneously. Any Sub can call and converse, but cannot communicate with other Subs. Subs can be set for private or non-private operation. When in private operation, Master cannot listen in, still originate calls to the Sub. In non-private operation, Master can listen in Sub, allowing the Sub to reply to calls received at a distance without using the Sub. Subs can originate calls in either operation. Only the Master requires connection. Master has press-to-talk volume control, slide switches for selection. All are leather-textured, gray finish and brushed chrome except T-LR-3M Sub Station, which has grained enamel finish. Subs are each, 12x8 3/4". Masters, 3 1/2x10 1/2x8 3/4". For operation from 110-120 volts, 50-60 cycle DC. All units Underwriters Laboratories approved.

**T-LM-5 MASTER.** Accommodates up to 5 Subs. Shpg. wt., 8 lbs.  
**92 RX 670.** List, \$59.95. NET..... 34.95

**T-LM-10 MASTER.** Accommodates up to 10 Subs. Shpg. wt., 8 lbs.  
**92 RX 671.** List, \$75.00. NET..... 44.00

**TYPE T-LR-3 SUB STATION.** Wt., 6 lbs.  
**92 RX 664.** List, \$27.50. NET..... 15.95

**TYPE T-LR-3M SUB STATION.** Wt., 6 lbs.  
**92 RX 674.** List, \$21.00. NET..... 11.95

**HIGH-POWER MASTERS.** For paging, or large or noisy areas—use with Standard or High-Power Subs. Same as Masters at left, but with 10 times the standard volume output.

**TYPE T-AC-5406.** Accommodates up to 5 Subs. Shpg. wt., 8 lbs.  
**92 RX 672.** List, \$75.00. NET..... 44.00

**TYPE T-AC-5411.** Accommodates up to 10 Subs. Shpg. wt., 8 lbs.  
**92 RX 673.** List, \$89.95. NET..... 52.50

**HIGH-POWER SUBS.** Answer Master, and with origination switch below, originate calls. Can be intermixed with standard Subs.

**T-C-20 TRUMPET TYPE.** 9" weatherproof re-entrant horn. 15 watts. 5 lbs.  
**92 RX 679.** List, \$44.95. NET..... 26.50

**T-HP-3 INDOOR TYPE.** 8" speaker in charcoal gray metal baffle. 12x12x8", 9 lbs.  
**92 RX 678.** List, \$28.00. NET..... 16.50

**TS-100 ORIGINATION SWITCH.** 2 lbs.  
**92 R 645.** List, \$6.00. NET..... 3.50

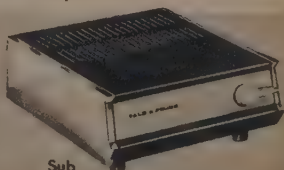
**TYPE 5303 3-CONDUCTOR CABLE FOR MASTER-SELECTIVE SYSTEMS.** Wt., per 100'; 3 lbs.  
**49 W 604.** NET PER FOOT..... 3c



Master



One Master communicates with up to ten Subs. Subs call Master, but not each other.



Sub

## SUPER-SELECTIVE Systems

**SELECTIVE STATION UNITS.** Highly versatile intercom system consisting entirely of station units. Any station can originate calls to any other station or stations and with them—several separate conversations can be carried on simultaneously without interference to each other. Also conference calls to be set up. Units include indicator which is lighted when unit is in operation. Also include switch for each station in the system, return press-to-talk lever, and volume control.

Beautifully finished with bonded, leather-texture gray vinyl and brushed chrome. Stations in the Super-Selective system may be placed over 1000 ft. apart. Suppress interconnecting cable (listed in catalog at right). Power consumed costs fraction of a cent per day. Case size, 12x8 3/4". For operation from 110-120 volts, 50-60 cycle AC or DC. Underwriters Laboratories Approved. Shpg. wt., 7 lbs.

**MODEL T-LS-5.** For up to 5 stations.  
**92 RX 666.** List, \$59.95. NET..... 34.95

**MODEL T-LS-10.** For up to 10 stations.  
**92 RX 667.** List, \$75.00. NET..... 44.00

**INTERCONNECTING CABLE FOR SUPER-SELECTIVE SYSTEMS.** For systems using Model T-LS-5 Stations, use Type 5506 interconnecting cable. For systems using Model T-LS-10 Stations, use Type 9911 cable. To accurately determine quantity of cable required, measure from 1st Station to 2nd only, 2nd to 3rd only, etc., and total. It is not necessary to connect last Station to first.

**TYPE 5506 CABLE.** Six-conductor. Shpg. wt., per 100'; 4 lbs.  
**49 W 605.** NET PER FOOT..... 7 1/2 c

**TYPE 9911 CABLE.** Eleven-conductor. Shpg. wt., per 100'; 12 lbs.  
**49 W 603.** NET PER FOOT..... 14 c



All Master stations. Each can call and communicate with any other station.

## COMBINATION Systems

**MASTERS AND STANDARD SUBS.** High flexibility combination systems consisting of a mixture of ten units—Masters and Subs intermixed as desired. Masters can originate calls to each other and to any Sub station selectively. One or more Subs can be set to answer only one Master if such is desired. Subs cannot originate calls. Master includes switch for private or non-private operation of Masters—other Subs cannot listen to a private Master, Master can receive calls, and originate calls by using the press-to-talk switch. In non-private mode of operation Masters and Subs can reply to calls at a distance. Master controls; calls can be answered from up to 40 ft. from unit. Subs require connection to wall outlet, merely connect to Master. Master units have sturdy cases, finished in leather-texture gray vinyl and brushed chrome. Model T-LR-2 Sub case has same finish as Master. Model T-LR-2M is of same color, but has grained, baked enamel. Sizes: Master, 12x8 3/4"; Subs, 2 1/2x7 1/2x8 3/4". Interconnecting cable, at right. For operation from 110-120 volts, 50-60 cycle DC. U.L. Approved.

**TYPE T-CL-5 MASTER.** For use with 5-station systems. Shpg. wt., 7 lbs.  
**92 RX 675.** List, \$72.00. NET..... 42.00

**TYPE T-CL-10 MASTER.** For use with up to 10-station systems. Shpg. wt., 8 1/2 lbs.  
**92 RX 676.** List, \$87.00. NET..... 51.00

**TYPE T-LR-2 SUB.** Shpg. wt., 5 lbs.  
**92 RX 663.** List, \$27.50. NET..... 15.95

**TYPE T-LR-2M SUB.** Shpg. wt., 5 lbs.  
**92 RX 677.** List, \$21.00. NET..... 11.95

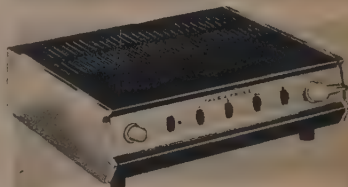
**HIGH-POWER SUBS.** See listings in Master-Selective Systems, above.

**INTERCONNECTING CABLE FOR COMBINATION SYSTEMS.** Use 6210 5-pair cable when using T-CL-5 Masters, 6226 13-pair cable for T-CL-10 Masters. Connect Sub to nearest Master only with 6902 2-cond. cable.

**49 W 617.** 6210 Cable. Shpg. wt., 6 lbs. per 100 ft. NET PER FOOT..... 14 c

**49 W 615.** 6226 Cable. Shpg. wt., 12 lbs. per 100 ft. NET PER FOOT..... 28 c

**49 W 613.** 6902 Cable. Shpg. wt., 2 lbs. per 100 ft. NET PER FOOT..... 2 c



Mixture of Masters and Subs up to a total of 10. Masters call; Subs only reply.



## OPTIONAL EQUIPMENT FOR ABOVE

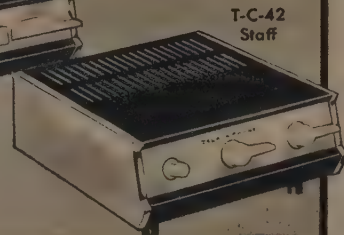
**WALL MOUNTING BRACKETS.** For use with all Subs, except Models T-C-20 and T-HP-3. Shpg. wt., 1/2 lb.  
**93 R 049.** List, \$1.25. NET PER PAIR. 75 c



# TALK-A-PHONE ALL-TRANSISTOR "CHIEF" INTERCOMS



T-C-4912  
Master



T-C-42  
Staff

- Busy Signal and Priority Break-In
- "Private" or "Non-Private" Operation
- Noise-Free, Natural Voice Reproduction

## OPTIONAL BUILT-IN CRADLE PHONE



You can order a Talk-A-Phone Master station with built-in cradle phone. Select the Master, and in place of its regular stock number, insert the word, "Special" and add "H" to Mr's Type No. Example: Special Talk-A-Phone Model T-C-4906H Master with Cradle Phone. Add \$35 to net price of Master.

## "HAS EVERYTHING . . . DOES EVERYTHING"

### "Chief" All-Transistor Master Stations

Deluxe, all-transistor universal Master stations—feature maximum convenience, top versatility and superb styling. Can be used in either all-Master or Master(s)-Staff(s) systems. Systems can be set up with a capacity of 6, 12, 20, or 30 stations (40, 50 and 60-station Masters with only 14 pushbuttons, are available—write for prices). Masters can talk with Staffs and other Masters; Staffs can talk to Masters, but not to other Staffs. Pushbutton selector on Masters permits conference calls with any number of stations. Masters can be set for private or non-private operation. In private operation, Master must operate talk-listen switch to reply. In non-private operation, Master can answer calls at a distance without using controls.

Built-in signal indicates whether a selected line is busy—executive priority calls can override a busy line. Masters have two incoming call signals—a light and a chime. Includes pushbutton selector, push-to-talk bar, dictation control, and volume control. Cradle phones for Masters are available—see ordering information above.

Stations may be placed several thousand feet apart. Relays to operate horns, sirens or lights can be put in a system and any Master can operate relays. In high-noise areas, if horn or siren is operated instead of chime in Master station, the Master is still fully operational—relay does not take the place of a Master. Each Master has junction box with power supply, 6-ft. cable. Steel cases in leather-texture gray vinyl, 3½x14x8¾". For 110-120 v., 50-60 cycle AC.

| Stock No. | Type     | Capacity    | Lbs. | List     | NET    |
|-----------|----------|-------------|------|----------|--------|
| 92 RX 680 | T-C-4906 | 6 stations  | 13   | \$136.00 | 79.50  |
| 92 RX 681 | T-C-4912 | 12 stations | 14   | 154.00   | 89.80  |
| 92 RX 682 | T-C-4920 | 20 stations | 14   | 184.00   | 107.40 |
| 92 RX 683 | T-C-4930 | 30 stations | 16   | 214.00   | 125.00 |

### "Chief" Extra-Power Master Stations

Use "Redi-Power" Masters in any "Chief" system where extra power is needed for many stations or for overcoming noise. Ideal for use in warehouses, light assembly plants, docks, outdoor areas. Return speech from called stations is received at normal volume.

Built-in amplifier provides 20 watts of audio power. Network automatically adjusts output to preselected level—when a number of stations are called, the volume at individual stations is not affected. Same size, finish and power rating as Masters above.

| Stock No. | Mfr's Type | Capacity    | Wt., Lbs. | List     | NET EACH |
|-----------|------------|-------------|-----------|----------|----------|
| 92 RU 685 | T-CRP-5912 | 12 Stations | 17        | \$235.00 | 138.00   |
| 92 RU 686 | T-CRP-5920 | 20 Stations | 17        | 265.00   | 155.00   |

### High-Power Stations and Origination Switches

HIGH-POWER STATIONS. Can answer Master, and with origination switches listed below, can originate calls. Use with any "Chief" system.

**A** T-C-20 TRUMPET TYPE. 9", weatherproof re-entrant horn. Power-handling capacity, 15 watts. Trumpet is finished in charcoal gray. Shpg. wt., 5 lbs. *No Money Down.*

92 RX 679. List, \$44.95. NET. **26.50**

**B** T-HP-3 INDOOR TYPE. 8" speaker in charcoal-gray metal baffle. Power-handling capacity, 5 watts. Baffle size, 12x12x8". Shpg. wt., 9 lbs.

92 RX 678. List, \$28.00. NET. **16.50**

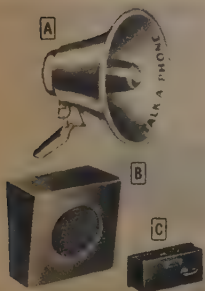
**C** ORIGINATION SWITCHES. Make T-C-20 or T-HP-3 operationally equivalent to T-C-41 or T-C-42. With incoming call and busy lights. Shpg. wt., 2 lbs.

TYPE T-S-101. Calls 1 Master.

92 R 692. List, \$11.95. NET. **6.95**

TYPE T-S-102. Calls 2 Masters.

92 R 693. List, \$19.95. NET. **11.70**



### CABLE FOR "CHIEF" SYSTEMS

For connecting Master to Master, in either an all-Master or a Master(s)-Staff(s) "Chief" system, measure from the first Master to the second Master only, from the second Master to the third Master only, etc.; add all of the measurements together. Order this total length of 6214 cable if your system is using 6-station Masters, 6226 cable if using 12-station Masters. If your system uses 20-station Masters, use 6232 cable, but double the total measured length (two equal lengths of cable run parallel each other between Masters). For 30-station Masters, triple the total length.

Use a single length of Type 6206 cable for connecting T-C-41, T-C-41M, T-C-42, T-C-42M Staffs to the Master(s) to which they are to originate calls (Staffs are not connected to each other, or to any other Master). Just as in connection of Staffs, connect high-power stations to each Master to which they are to originate calls with Type 6206 cable—if the origination feature is being used. If high-power units are not being used, to originate calls, connect each one to nearest Master with single length of 6902 cable.

TALK-A-PHONE INTERCOM CABLE. For indoor or outdoor use.

| Stock No. | Type No. | Pairs | Lbs./100' | PER FT. |
|-----------|----------|-------|-----------|---------|
| 49 W 616  | 6214     | 7     | 5         | 144     |
| 49 W 615  | 6226     | 13    | 9         | 284     |
| 49 W 622  | 6206     | 3     | 2½        | 8½      |
| 49 W 613  | 6902     | 1     | 2         | 24      |



# Popular "TQ" Phone Systems by Bogen

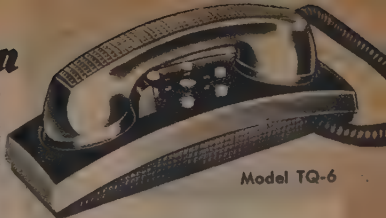
most telephone units for time-saving use in plant, home or office. Keep your outside line free for calls, provide private replies. Phones have selective ringing with a common line—permit conference calls, but only one conversation at a time. To make a call, receiver and press buttons to ring stations to which you wish to speak. System is controlled by a single PRS-1 supply (below).  
 7. No. of conductors in cable between phones is three more than no. of phones in a measure from station 1 to 2, 2 to 3, etc. Size, 9/16x3/4x3/4".

259. PRS-1 Power Supply. 4x6x1 1/4". 10-120 v., 50-60 cycle AC. 4 lbs. List, \$1. NET... 22.50

PHONES. Pair of phones for a 2-station system, each with buzzer. Shpg. wt., 5 lbs. 642-List, \$51.45. NET PER PR. 38.60

92 R 643. TQ-6 Selective-Ringing Phone. For systems of up to 7 stations; has six push-buttons. 3 lbs. List, \$27.95. EACH... 20.95

92 R 644. TQ-12 Selective-Ringing Phone. For systems of up to 13 stations; has 12 push-buttons. 3 lbs. List, \$34.25. EACH... 25.70



Model TQ-6

## EFFICIENT PHONE INTERCOM SYSTEMS

## PAGING/P.A. ADAPTERS FOR BOGEN PHONES ABOVE

### TRA Pushbutton Phone-Page Adapter



For use in Bogen phone systems for convenient, push-button paging with your existing public address system. Easily connected between phone system and P.A. system (use 3-cond. cable listed below, TRA adapter and phone system). To page, merely press the push button reserved for page. Music program equipment can be connected to TRA adapter to feed into P.A. system—music automatically stops during paging. Volume control permits different paging and for music. Powered by PRS-1 power supply (above) used to power phone system. Size (HWD), 4x4x2 1/2". wt., 2 lbs.

221. List, \$42.20. NET... 31.65

### RECOMMENDED POWER AND PHONE CABLE

For use in Bogen phone systems described above, 3-conductor cable for connecting power supply to system (connected at any point in box in the system). Cable listed for between-phone use (covered) gives optimum operation over distances to 500 feet between power supply and the farthest phone.

| No. | Use With     | Cond. | Lbs. per 100' | PER FT. | Per 100' |
|-----|--------------|-------|---------------|---------|----------|
| 825 | PRS-1 supply | 3     | 4             | 5 1/2c  | 5.08     |
| 892 | TQ-1 system  | 6     | 3 1/2         | 5c      | 3.82     |
| 893 | TQ-6 system  | 12    | 6             | 7c      | 5.88     |
| 894 | TQ-12 system | 18    | 6 1/4         | 9 1/2c  | 7.94     |

## Wheeler Sound-Powered Telephones

Where AC power is not available—voice generates current—no batteries required. Satisfactory communication to 20 miles. Handsets are self-contained. SPT-102 with 3-ft. neoprene cord, insulated clips, less interconnecting cable (below)—uses 2-twisted pair 4-ft. retracting cord. 1 up to 3 usable in a common ringing system.

| No. | Type      | Fig.  | Description                                                                                    | Lbs.  | List    | NET   |
|-----|-----------|-------|------------------------------------------------------------------------------------------------|-------|---------|-------|
| 350 | SPT-102   | A     | Handset. Up to 12 can be paralleled.                                                           | 1 1/2 | \$15.15 | 12.88 |
| 360 | SPT-123*  | A     | Hi-level handset for noisy areas (less clips)                                                  | 1 1/2 | 16.95   | 14.41 |
| 361 | SPT-150   | A     | Same as SPT-123 but with insulated clips.                                                      | 1 1/2 | 17.60   | 14.96 |
| 355 | SPS-305   | B     | Wall mount handset holder. For installations with separate ringing systems. 2 1/2x5 1/2x3 1/2" | 1 1/2 | 15.50   | 13.17 |
| 356 | SPS-1205† | ..... | Same as SPS-305 but with bell.                                                                 | 1 1/2 | 21.43   | 18.21 |
| 420 | B-5446    | ..... | Handset hook. For wall or desk-side mtg.                                                       | 1/4   | 1.75    | 1.49  |

INSTALLATION UNITS. Masters (Fig. C) can ring and converse with any station, can ring and converse with Master direct—or reach Subs through Master. Up to 12 can be used in either all-Master, or Master-Sub systems. For cable: measure from 1st unit to 2nd, 2nd to 3rd, etc. \*Conductors equal no. of stations plus 2; †no. of Subs plus 3.

353. Type SPS-205-M. \*Master station. 5 lbs. List, \$67.70. NET... 50.75

354. Type SPS-205-S. †Sub station. Not illus. 5 lbs. List, \$57.45. NET... 43.09

3-PHONE SYSTEMS. Basic intercom systems consisting of either 2 or 3 phones on a common ringing, common-talking circuit. 3-phone system limited to 500-ft. distance.

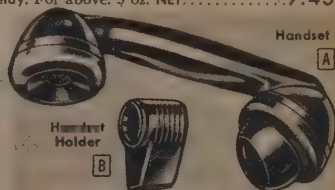
Cond. cable, below. Measure from phone 1 to 2, and from 2 to 3.

| ck No. | Mfr's Type | Description                         | Lbs. | List    | NET    |
|--------|------------|-------------------------------------|------|---------|--------|
| 351    | SPS-205    | 2-phone system                      | 7    | \$80.47 | 68.40  |
| 352    | SPS-205-3  | 3-phone system                      | 10   | 120.75  | 102.64 |
| 362    | SPS-205-H  | As SPS-205, but for hi-noise areas. | 7    | 92.00   | 78.20  |

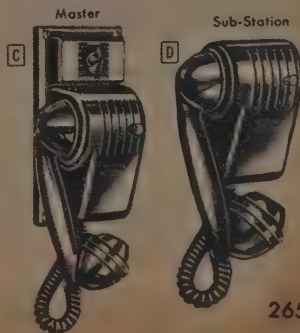
### RECOMMENDED INDOOR-OUTDOOR CABLE FOR WHEELER PHONES

| No. | Cond. | Lbs., 100' | PER FT. | PER 100' | Stock No. | Cond. | Lbs., 100' | PER FT. | PER 100' |
|-----|-------|------------|---------|----------|-----------|-------|------------|---------|----------|
| 826 | 2     | 3          | 4c      | 3.38     | 48 W 892  | 6     | 3 1/2      | 5c      | 3.82     |
| 825 | 3     | 4          | 5 1/2c  | 5.08     | 48 W 893  | 12    | 6          | 7c      | 5.88     |

Phone and Intercom Systems Are Convenient and Time-Saving



## WHEELER





# PAGING and TALK-BACK SPEAKERS



IB-A8; MIL-A8



SAVE TIME  
... SAVE STEPS

CIB-A8;  
CMIL-A8



IBR-A8

**MODEL IB-A8 GENERAL-PURPOSE SPEAKER.** Compact, highly efficient, economy-priced reflex-type with built-in 25-watt driver unit. Offers maximum speech intelligibility in high-noise areas—can even be mounted on heavy machinery where sound source must be brought close to personnel. 90° dispersion angle. Frequency range, 250-13,000 cps. Impedance, 8 ohms. 10 1/4" bell diameter, 9" long. Complete with mounting bracket. 4 lbs. *No Money Down.*  
70 DX 270. List, \$34.50. NET....20.29

**MODEL IBA-45.** As above, but has 45-ohm voice-coil. Recommended for talk-back use. Shpg. wt., 4 lbs. *No Money Down.*  
70 DX 363. List, \$36.00. NET....21.17

**MODEL MIL-A8 LOW-POWER SPEAKER.** Similar to Model IB-A8 above. For use with low power system. Reflex-type 7.5-watt driver. Range, 350 to 13,000 cps. Dispersion, 120°. Impedance, 8 ohms. Size, 7x6 1/2" diameter. Shpg. wt., 3 1/4 lbs.  
70 D 271. List, \$28.35. NET....16.67

**MODEL MIL-A45.** As above, but 45-ohms.  
70 D 362. List, \$29.60. NET....17.44

**MODEL CIB-A8 WIDE-ANGLE SPEAKER.** Perfect for paging, announcing, etc. Has reinforced fiberglass bell. Capacity: 25 watts, continuous. 250-13,000 cps. Horizontal dispersion, 120°; vertical, 60°. Impedance, 8 ohms. 7 3/4"x14"x12". With mtg. bracket. Shpg. wt., 5 1/2 lbs. *No Money Down.*  
70 DX 356. List, \$46.00. NET....27.05

**MODEL CIB-A45.** Identical to Model CIB-A8 (below, left), but has 45-ohm impedance. *No Money Down.*  
70 DX 357. List, \$47.65. NET....28.02

**MODEL IBR-A8 RADIAL HORN.** A compact speaker with a built-in driver designed for installations requiring a minimum of speakers, but where wide coverage is required. Delivers full 360° dispersion where speakers can be suspended from the ceiling. Continuous power capacity, 25 watts. Frequency response, 300 to 10,000 cps. Impedance, 8 ohms. Size, 10 1/4"x13" diameter. Supplied complete with ceiling ring. Shpg. wt., 5 1/4 lbs. *No Money Down.*  
70 DX 360. List, \$48.83. NET....28.71

**MODEL IBA-45.** Identical to above, but has 45-ohm impedance.  
70 DX 361. List, \$50.40. NET....29.64

**MODEL CMIL-A8.** Similar to CIB-A8 (below, left), but for use in lower power operations where excessive power would be wasted. Offers high efficiency and maximum intelligibility. Frequency response, 350-13,000 cps. Continuous power capacity, 7.5 watts. Horizontal dispersion, 120°; vertical dispersion, 60°. With "omni-look" swivel mounting bracket. Size, 6 7/8"x9 1/2"x8 7/8". Shpg. wt., 4 lbs.  
70 D 358. List, \$32.73. NET....19.25

**MODEL CMIL-A45.** As above, but 45-ohm impedance. *No Money Down.*  
70 D 359. List, \$34.10. NET....20.05

## USEFUL ACCESSORIES

**MODEL 5433 TRANSFORMER.** Ideal for feeding paging speakers. Capacity, 30 watts. Primary impedance: 45, 165, 200, 250, 300, 1000, 2000 ohms. Secondary imp.: 4, 8, 16 ohms. 70 volt taps: 30, 25, 20, 10, 5, 2.5 watts. Mtg. ctrs., 2 3/8", 1 1/2"x2 3/4"x1 3/4". Shpg. wt., 1 lb.  
70 D 786. List, \$7.70. NET....4.50

**MODEL 5434 TRANSFORMER.** 15-watt capacity. Pri. imp.: 45, 325, 500, 1000, 2000, 4000, 8000 ohms. Sec. imp.: 4, 8, 16, 70 volt taps: 15, 10, 5, 2.5, 1.25, 0.65 watts. Mtg. ctrs., 2", 1 1/2"x1 1/2"x1 1/4". 3/4 lb.  
70 D 787. List, \$6.60. NET....3.80

**CTR TRANSFORMER HOUSING.** For 5433 and 5434 above, or other units up to 2 3/4"x2 3/4" max. and with mounting centers from 1 1/2" to 2 3/4". Weatherproof aluminum. With bar strap. Shpg. wt., 2 lbs.  
93 D 379. List, \$8.80. NET....5.10

**PB-1 TRANSFORMER HOUSING.** For transformers with 2" mtg. ctrs., not over 1 1/2"x1 1/4". Size 3 1/2" high, 2 3/4" diameter. Shpg. wt., 1 lb.  
93 D 385. List, \$4.13. NET....2.40

**PMA PIPE ADAPTER.** For mounting trumpet on 1/2" pipes. Shpg. wt., 3/4 lb.  
95 D 160. List, \$2.20. NET....1.20

**2YC "Y" CONNECTOR.** Connects 2 drivers to one trumpet. Shpg. wt., 1 lb.  
95 D 159. List, \$13.20. NET....7.70

## NEW! University

### WIDE SOUND DISPERSION!



120° horizontal, and 16° vertical dispersion for broad, even coverage

### UNIQUE CONSTRUCTION

Standing up to nearly 5 feet high, but only 10" wide, these new speakers employ unique design factors that permit simple, inconspicuous installation—set new P.A. standards in bass response and balanced, overall sound reproduction.



## 'UNILINE' Column Speakers

- Sharply Reduce Feedback and Reverberation
- Simplified, Unobtrusive Installation
- High Efficiency and Power Handling Capacity

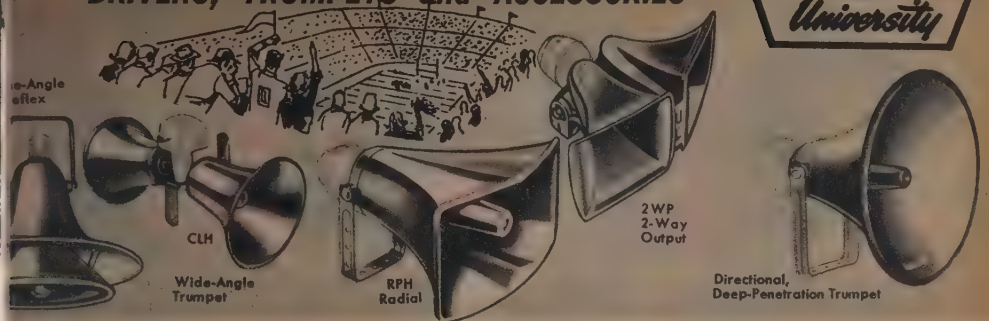
**MODEL UCS-6 "UNILINE" COLUMN SPEAKER.** An all-new in-line radiator incorporating design advances that permit a dramatic reduction in acoustic feedback and reverberation, plus uniform distribution of "live-quality" sound, unusually high power-handling capacity, an simplified, unobtrusive installation. Broad horizontal dispersion and extremely narrow vertical distribution "beam" the radiate sound in a flat, broad pattern for sharply reduced reflection from floors and ceilings—place the sound where it's needed most. Advanced design also avoids "blasting" persons close to speaker for greater listener comfort and improved intelligibility. Designed for crisp, full-range reproduction of music as well as voice, the UCS-6 employs six extended-range 8" speakers for a remarkably wide response of 35-17,000 cps. Power capacity is a full 150 watts. Vertical dispersion, 16°; horizontal, 120°. Impedance, 16 ohms. Neutral finish, 58 1/2"x10x7". Wt., 55 lbs. *No Money Down.*  
70 DZ 691. List, \$299.90. NET....176.30

**MODEL CS-4.** Similar to UCS-6, but 40" high and with four 8" speakers. Response, 45-17,000 cps. Power capacity, 80 watts. Dispersion: vertical, 22°; horizontal, 120°. Impedance, 8 ohms. Shpg. wt., 39 lbs. *No Money Down.*  
70 DZ 693. List, \$233.25. NET....137.10

**MODEL CS-3.** Similar to CS-4 above, but for speech use only. Response, 150-10,000 cps. Power capacity, 40 watts. Size, 39x8x6. Shpg. wt., 30 lbs. *No Money Down.*  
70 DZ 694. List, \$125.00. NET....73.50



# DRIVERS, TRUMPETS and ACCESSORIES



- FLEX-2 WIDE-ANGLE REFLEX TRUMPET.** Provides 120° total sound pattern. 200-cps cutoff. For voice only. With joint bracket.  $9\frac{1}{2} \times 18\frac{1}{2} \times 10\frac{1}{4}$ ". Less driver. 10½ lbs.  
**184.** List, \$40.25. NET..... **23.67**  
**CLH WIDE-ANGLE TRUMPET.** Features  $4\frac{1}{2}$ -ft. air column. cutoff.  $21\frac{1}{2} \times 11\frac{1}{2} \times 20\frac{1}{2}$ " dia. Less driver. 15 lbs.  
**376.** List, \$46.50. NET..... **27.34**  
**RPH RADIAL TRUMPET.** For ceiling use; 360° coverage. 140 cps 4-ft. air column.  $25\frac{3}{4}$ " dia. Less driver. 19 lbs.  
**162.** List, \$47.00. NET..... **27.64**  
**RLH.** As above, but with 5-ft. air column. 25 lbs.  
**042.** List, \$59.00. NET..... **34.69**  
**-WAY CORRIDOR SPEAKER.** Dual horns. 180° opposed. Use series driver, below. Dispersion, 120° each horn. Power,  $\frac{1}{2}$  watt depend on driver used. With bracket.  $20\frac{1}{2} \times 8$ " dia. 4 lbs.  
**860.** List, \$29.40. NET..... **17.29**

Directional P.A. trumpets engineered to provide deep sound penetration with a narrow distribution angle. Excellent for all applications where an exceptionally "long throw" is required or for areas where it is necessary to over-ride very high noise levels. The large horn diameters of the units listed below provide a sharper distribution pattern than would be obtained with smaller units—provide more sound intensity along the speaker axis.

Model GH has 85-cps cutoff for excellent music reproduction. Models LH and PH have higher cutoff for general use. Model SMH for voice only. Supplied with "U" mtg. bracket, less driver.

| Stock No. | Type | Dia.               | Length             | Low Cutoff | Lbs.             | List    | EACH  |
|-----------|------|--------------------|--------------------|------------|------------------|---------|-------|
| 95 DZ 158 | GH   | 30 $\frac{3}{4}$ " | 27 $\frac{3}{4}$ " | 85 cps     | 22               | \$75.60 | 44.45 |
| 95 DZ 155 | LH   | 25 $\frac{3}{4}$ " | 19"                | 120 cps    | 16 $\frac{1}{2}$ | 46.73   | 27.48 |
| 95 DZ 156 | PH   | 20 $\frac{1}{4}$ " | 15 $\frac{3}{4}$ " | 150 cps    | 11 $\frac{3}{4}$ | 34.13   | 20.07 |
| 95 DX 157 | SMH  | 16 $\frac{1}{2}$ " | 12"                | 200 cps    | 8                | 28.88   | 16.98 |

## Heavy-Duty Drivers For Trumpets

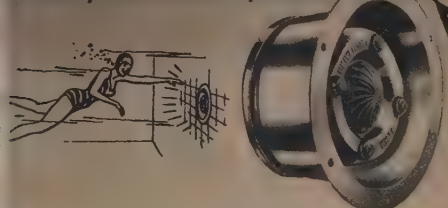
range response, breakdown-proof for any trumpet listed above. All are hermetically sealed to assure the efficiency. These drivers provide extra punch needed to cut through noise; give clearer more intelligible

P.A. Use either indoors or out, in any climate, under all environmental conditions. ID-40T, ID-60T have built-in multi-impedance line transformers with power taps. All have 16-ohm voice coil impedance. \*Indicates wattage of taps for 70.7 v. systems.

| Stk. | Mfr's Type | Frequency Range | Primary Ohms                   | *Wattage of Taps       | Max. Watts | Wt. Lbs.        | List    | NET EACH |
|------|------------|-----------------|--------------------------------|------------------------|------------|-----------------|---------|----------|
| 364  | ID-20      | 120-6500        |                                |                        | 20         | 3               | \$25.00 | 14.70    |
| 365  | ID-30      | 85-7500         |                                |                        | 30         | 3 $\frac{3}{4}$ | 31.50   | 18.52    |
| 366  | ID-40      | 80-12,000       |                                |                        | 40         | 4 $\frac{1}{2}$ | 39.50   | 23.23    |
| 368  | ID-40      | 70-12,000       |                                |                        | 60         | 5 $\frac{1}{2}$ | 52.75   | 31.02    |
| 367  | ID-40T     | 80-12,000       | 45, 122, 250, 500, 1K, 2K, 2.5 | 40, 20, 10, 5, 2.5     | 40         | 5 $\frac{1}{4}$ | 52.75   | 31.02    |
| 369  | ID-60T     | 70-12,000       | 16, 80, 165, 250, 500, 1K, 2K  | 60, 30, 20, 10, 5, 2.5 | 60         | 6 $\frac{1}{4}$ | 63.25   | 37.19    |



## Quality Underwater Speakers



- Perfect for Water Ballet Use
- Clear, Distinct Reproduction
- 100 to 10,000 cps Response

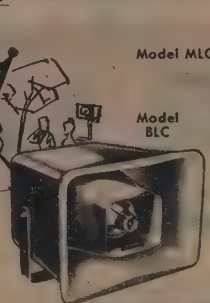
- MM2-FUW.** Specifically designed for underwater use. Dis-reproduces voice, music, special sound effects. Special mylar diaphragm easily accessible for cleaning. Response, 100-10,000 cps. 25 watts. 150° dispersion. With 18 ft. 3-wire cable. For flush mtg. O.D., 7 $\frac{1}{4}$ ". Depth, 3 $\frac{3}{4}$ ". 6½ lbs.  
**426.** List, \$74.25. No Money Down. NET..... **43.66**  
**427. MODEL MM2-UW.** As above, but with bracket for pipe mtg. O.D., 6"; depth, 5". List, \$74.25. NET..... **43.66**

## ELECTRONIC SIREN SPEAKER

- MM2L-50.** Similar to MM2-FUW above, but has 50-watt design for use with electronic sirens. Omni-Lock mounting.  $9\frac{3}{4}$ ". Depth, 6 $\frac{1}{4}$ ". Shpg. wt., 7½ lbs.  
**405.** List, \$74.88. No Money Down. NET..... **44.03**



NET  
\$52<sup>63</sup>

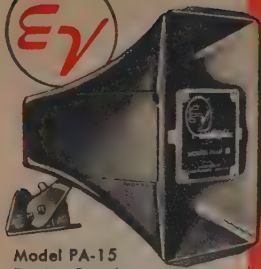


NET  
\$33<sup>81</sup>

## WEATHER-PROOF HI-FI SPEAKERS

- MODEL BLC.** Weatherproof, coaxial hi-fi speaker for bandshells, lawns, etc. Boasts lightweight design, shallow depth, easy handling. Response, 70-15,000 cps; 2000-cycle crossover, 120° dispersion. 25-watt capacity. Impedance, 8 ohms.  $22\frac{3}{4} \times 9\frac{1}{4}$ ". 21 lbs.  
**95 DU 186.** List, \$89.50. No Money Down. NET..... **52.63**  
**MODEL WLC.** Larger version of above. For stadiums, etc. 50-15,000 cps. 90° dispersion. 30 watts. 8 ohms.  $33\frac{1}{2} \times 20$ ". 72 lbs.  
**95 DZ 181.** List, \$250.00. No Money Down. NET..... **147.00**  
**MODEL MLC.** Similar to BLC above, but for low power use. 150-15,000 cps. 120° dispersion. 15 watts. 8 ohms.  $12\frac{3}{4} \times 9\frac{1}{4} \times 10\frac{3}{4}$ ". Shpg. wt., 10 lbs.  
**93 DX 378.** List, \$57.50. No Money Down. NET..... **33.81**

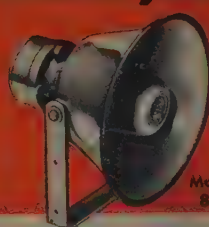
by **ElectroVoice**



**Model PA-15  
Paging Speaker**



**Model  
847**



**Model  
844**

**NEW MODEL PA-15 PAGING SPEAKER.** Attractively-styled, die-cast horn offering wide response: 350 to 13,000 cps. Dispersion, 120°. Capacity, 15 watts. Unique swivel mounting single driver. Imp., 8 ohms.  $8\frac{3}{4} \times 5\frac{1}{4} \times 8\frac{3}{4}$ " Shpg. wt., 5½ lbs.  
82 D 925. List, \$30.00. NET.....17.64  
82 D 926. Model PA-15-45. As above, but 45 ohms. NET.....18.37

**MODEL 848 CDP 30-WATT PROJECTOR.** Unique coaxial projector with single driver. Virtually indestructible, weatherproof spun fiberglass construction; high-quality sound. Two horns: large horn for low frequencies from 150 to 1000 cps; small horn for highs—1000-10,000 cps. Coverage, 120°. Capacity, 30 watts, 16 ohms. Mesa Tan.  $20\frac{1}{2} \times 10\frac{1}{2}$ " mouth; 20" deep, 15 lbs. No Money Down.  
81 DU 490. List, \$82.50. NET.....48.51

**MODEL 847 CDP 25-WATT PROJECTOR.** Smaller version of 848 at 16 lbs. Has 2 coaxially mounted diffraction horns for 120° dispersion. All frequencies from 250 to 10,000 cps. Capacity, 25 watts. Impedance, 16 ohms. 1500 cps crossover.  $11\frac{1}{4} \times 7\frac{1}{4}$ " mouth; 10" deep. Shpg. wt., 10 lbs. No Money Down.  
81 DX 851. List, \$51.00. NET.....29.90

**MODEL 844 RE-ENTRANT PAGING SPEAKER.** Die-cast re-entrant horn with detachable 30-watt driver and universal mounting bracket. Ideal for police and fire vehicles, etc., as well as paging systems. Tropicalized and weatherproofed. Response, 250 to 13,000 cps. Capacity, 30 watts. Impedance, 8 ohms. Dispersion, 90°. Dia.,  $9\frac{1}{8}$ "  $8\frac{3}{8}$ " deep. Shpg. wt.,  $8\frac{1}{2}$  lbs. No Money Down.  
82 DX 921. List, \$36.50. NET.....21.40

## DRIVERS AND TRUMPETS FOR SPECIAL APPLICATIONS

**COMPOUND HORNS.** Dual-horn assemblies for wide response. Large horn for broad bass response; small horn for high frequencies. Less drivers, select from listings below.

**MODEL FC-100 RECTANGULAR.** Tan fiberglass. Cutoff, 100 cps.  $90 \times 120^\circ$  dispersion.  $10\frac{1}{2} \times 20\frac{1}{2}$ " Shpg. wt., 12¼ lbs.  
70 DU 437. List, \$50.00. NET.....29.40

**MODEL AC-100 ROUND.** Low frequency dispersion, 80°; high, 30°. Crossover at 1000 cps. 21" dia.; 16" deep, 13½ lbs.  
70 DU 438. List, \$47.00. NET.....27.64

**RE-ENTRANT HORNS.** Single horns with precision die-cast tube. FR-150 has Mesa Tan fiberglass horn; AR-150 has spun aluminum bell. Less drivers, select from listing below.

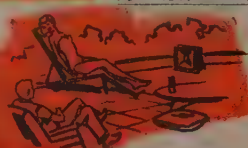
**MODEL FR-150 RECTANGULAR.** For broad coverage. Dispersion,  $70 \times 100^\circ$ . Cutoff, 100 cps.  $10\frac{1}{2} \times 20\frac{1}{2}$ "  $21^\circ$  D. 12 lbs.  
70 DU 439. List, \$39.00. NET.....22.90

**MODEL AR-150 ROUND.** Deep, narrow-angle penetration. Cutoff, 150 cps. Dispersion, 85°. Dia., 21"; 17" deep, Wt., 8 lbs.  
70 DU 440. List, \$34.00. NET.....19.90

## Convertible Drivers for Above Units

High-efficiency drivers that can be used interchangeably in both compound and re-entrant horns. Double-power Indox (ceramic) magnets used in low-loss magnetic circuits. Edge-wound ribbon voice coils for 18% additional energy from the amplifier than conventional designs. T in Yes. No, indicates with transformer. All have ohm voice coil impedance. \*Indicates wide range of taps for use in 70.7 volt systems.

| Stock No. | Type  | Range, Cps | Primary Ohms       | *Watt Taps     | Watts | Lbs. | List    | NE |
|-----------|-------|------------|--------------------|----------------|-------|------|---------|----|
| 70 D 441  | DC30A | 150-10,000 |                    |                | 30    | 4¼   | \$31.00 | 24 |
| 70 D 442  | DC30T | 150-10,000 | 167, 333, 1K, 2K   | 30, 15, 5, 2.5 | 30    | 5¼   | 41.00   | 23 |
| 70 D 443  | DC40  | 140-11,000 |                    |                | 40    | 6¼   | 40.00   | 23 |
| 70 D 444  | DC40T | 140-11,000 | 125, 250, 500, 1K  | 40, 20, 10, 5  | 40    | 8¼   | 52.50   | 30 |
| 70 D 430  | DC50  | 140-11,000 |                    |                | 50    | 8    | 52.50   | 30 |
| 70 D 431  | DC50T | 140-11,000 | 100, 143, 200, 500 | 50, 35, 25, 10 | 50    | 9¼   | 63.50   | 37 |



## ENJOY HI-FI OUTDOORS E-V MUSICASTER

Unique one-piece, weatherproof speaker system. Employs a die-cast aluminum, back-loaded folded horn as an integral part of its structure—extends bass response to 60 cps. Compact and lightweight, the "Musicaster" provides remarkably clean and highly realistic reproduction of voice and music. Ideal for square dances, school use or for the home. Rubber feet allow placement on any flat surface during portable use. Response, 60 to 13,000 cps. Impedance, 8 ohms. Dispersion, 120°. Capacity, 30 watts. Tan finish. HWD,  $21\frac{1}{2} \times 21\frac{1}{2} \times 8\frac{1}{2}$ " Shpg. wt., 34 lbs. No Money Down.  
82 DU 922. List, \$90.00. NET.....52.92

**MUSICASTER II.** Same fine unit as above plus VHF tweeter. Smooth horn from 60-18,000 cps. With crossover. Shpg. wt., 36 lbs.  
70 DU 435. List, \$125.00. NET.....73.50

**MODEL MB-1 MOUNTING BRACKET.** Allows mounting of "Musicaster" flat against wall for neat, unobtrusive installation. Replaces standard "U" bracket. Shpg. wt., 1 lb.  
70 D 436. List, \$4.50. NET.....2.65

## E-V ACCESSORIES



**A) HC1000 CONCENTRATING HORN.** Converts FC-100 or 848 to concentrated (30°) coverage above 1000 cps. 4 lbs.  
82 D 923. List, \$10.00. NET.....5.80

**B) AP-1 PIPE STAND ADAPTER.** Adapts "U" bracket to fit ½" pipe. Shpg. wt., 1 lb.  
70 D 433. List, \$2.50. NET.....1.47

**C) RA-1 RADIAL ADAPTER.** Adapts FC-100 or 848 to "radial" applications. Shpg. wt., 1 lb.  
70 D 434. List, \$6.00. NET.....3.50

**D) HD1000 DIFFRACTION HORN.** Converts Model AC-100 projector to wide-angle distribution ( $60 \times 120^\circ$ ) above 1000 cps. Shpg. wt., 1½ lbs.  
70 D 432. List, \$6.00. NET.....3.50

**879 JOINING KIT.** Joins 848, FC-100 or FR-150 projectors in arrays. One kit required for each additional projector, 1 lb.  
81 D 495. List, \$2.75. NET.....1.67



# SIMPLIFY YOUR SOUND SYSTEM WITH New SOUND COLUMNS by *Electro-Voice*

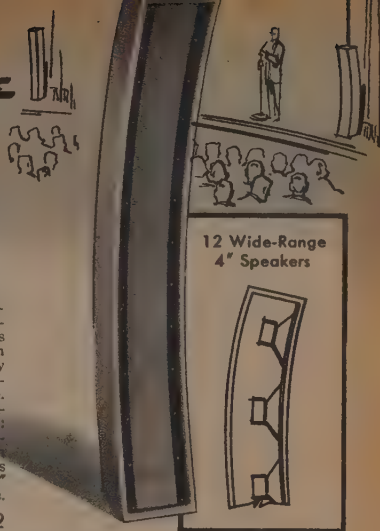
IDEAL COVERAGE . . .  
SOLVES INDOOR P.A. PROBLEMS

Features 180° Horizontal Dispersion  
and 90° Vertical Dispersion from  
200 to 10,000 cps

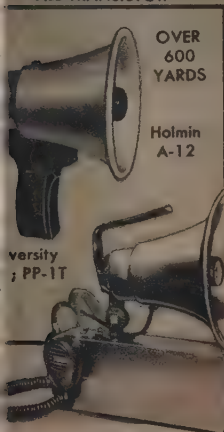


**LR-4 CURVED-LINE RADIATOR.** A new important breakthrough in sound reaction and coverage, the LR-4 was specially designed for control of feedback in P.A. installations where high-quality sound reinforcement is required. It represents a substantial advance over the "d columns" which have been used in the past. It is the first truly wide-range portable to offer simplified, accurate control of sound through wide horizontal angle and restricted vertical coverage. It provides a degree of sound distribution formerly attainable only with elaborate equipment and much practical experience. Gives broad, even coverage while

keeping sound off of ceilings or other reflective surfaces. Designed specifically for difficult indoor installations, the LR-4 takes the "confusion" out of P.A. installations in theaters, cathedrals, gyms and other tricky surroundings by providing acoustical control comparable to that of a cardioid mike. 12 top-quality 4" speakers provide a response of 200-10,000 cps. Dispersion: horizontal, 180°, vertical, 90°. Power capacity, 25 watts. Impedance, 8 ohms. Mesa Tan finish. Universal mounting bracket allows precise adjustment for best dispersion. 48" high, 7" wide, 8" deep. Shpg. wt., 22 lbs. *No Money Down.*  
70 DZ 687. List, \$115.00, NET.... 67.62



## ALL-TRANSISTOR



OVER  
600  
YARDS  
  
Holmin  
A-12



University  
PP-2



For Police  
And Fire Work



Perfect For  
Sports Events



Ideal For  
Lifeguards

UP TO  
1000  
YARDS



Fanon  
Model MV-8

UP TO  
600  
YARDS



Fanon  
Low-Cost MV-1

UP TO  
440  
YARDS



University  
PP-2 "Powpage"

UP TO  
300  
YARDS

## HOLMIN "VOICE GUN"

**HOLMIN A-12.** Heavy-duty hand-held P.A. with husky 3-transistor amplifier to give voices out 500 yards or more. With all weather conditions. Transistors push-to-talk switch give instant operation and long battery life—up to 1 year in all use. Leather carrying strap. Includes 8 standard penlight cells. Horn dia., 5 1/4 lbs. *No Money Down.*  
X 006. List, \$119.95, NET.... 89.96

## UNIVERSITY TRANSISTORIZED "POWPAGE"

**PP-17.** A fully transistorized portable system delivering 25 full watts of low-toned sound power for a long-range throw of up to 1000 yards. Exceptionally powerful for a unit of this type, the PP-17 was designed for high stability under operating conditions—excellent for police and fire department work, sporting events, disaster areas—has CD approval for watching funds. Rugged dynamic microphone controlled response for maximum intelligibility. Press-to-talk "Powpage" switch gives instantaneous operation—substantially increases battery life. Jack accommodates record player, tape recorder. Talk/over feature lets music program level 6 db when mike is depressed so that voice can easily

## UNIVERSITY "POWPAGE"

**MODEL PP-2.** An excellent general-purpose unit with a 440-yard range. Easy to handle, the PP-2 weighs just 3 3/4 pounds, including batteries, which slip into the pistol-grip handle. Has jack for use with external 6 or 12 volt DC source, push-to-talk switch. Horn dia., 8". Less batteries, below (uses 6). 5 1/4 lbs. *No Money Down.*  
93 SX 780. List, \$82.50, NET.... 48.51  
53 J 031. Battery, 6 needed. 2 oz. EA. 10 c

be heard over music. Talk/Listen switch converts unit to a highly directional, sensitive listening device—a tremendous aid in locating buoys, injured persons, foghorns, boats, etc. Weighs only 13 pounds including batteries (not supplied; uses 4 Type F4H standard lantern batteries, below). Comes with leather carrying strap. Horn dia., 9". Shpg. wt., 13 lbs. *No Money Down.*  
70 SX 394. List, \$283.25, NET.... 166.55

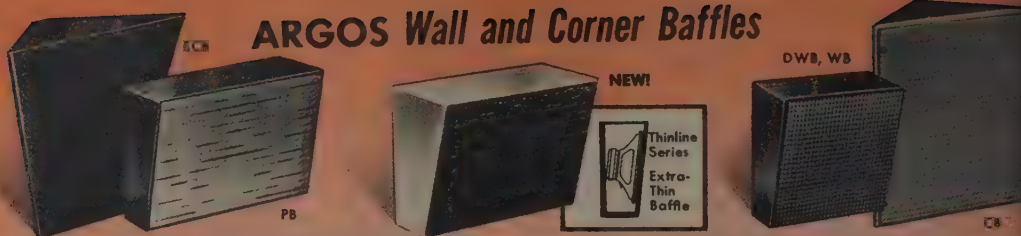
**MODEL PP-1.** Non-transistorized version of above. "Powraver" switch. Uses 4 F4H batteries. 8 lbs. *No Money Down.*  
70 SX 410. List, \$104.50, NET.... 61.45  
53 J 028. Batteries, 4 required for PP-1T or PP-1. 1 1/2 lbs. each. NET EACH.... 87 c

## FANON ECONOMY MEGAPHONE

**MODEL MV-1.** Our lowest-priced hand-held P.A. unit, this portable "megaphone" will throw your voice out loud and clear for approximately 300 yards. Save your voice by using this super-economical unit for P.A. use in schools, sports events, parking lots, police and fire departments and all types of gatherings. Two switches instantly select high or low power for most efficient battery use. Made of aluminum with durable enamel finish. Strap lets you carry unit around neck. Average battery life is 10 hours (continuous use) on 4 low-cost size D flashlight cells. Less batteries, below. Horn dia., 6 1/2". Shpg. wt., 4 lbs. *No Money Down.*  
93 SX 007. List, \$39.95, NET.... 29.95  
79 J 754. Burgess 210 Heavy-Duty Battery. For above. Uses 4. 5 oz. EACH..... 17 c

## FANON TRANSISTOR MEGAPHONE

**MODEL MV-8.** Professional-quality all-transistor unit with a range of 600 yards. Built of durable aluminum with baked-enamel finish. Has waterproof dynamic mike, pistol-grip trigger, variable volume control, carrying strap. Average continuous battery life, 10 hours. Horn dia., 9". Shpg. wt., 6 lbs. *No Money Down.*  
93 SX 008. List, \$99.95, NET.... 74.95  
53 J 029. Battery, 8 required. EACH.... 14 c



# ARGOS Wall and Corner Baffles

## SLANTING-FRONT BASS REFLEX CORNER BAFFLES

Here are two handsomely designed, extremely versatile bass reflex enclosures. Excellent for music systems, P.A. etc. Simple installation—speaker bolts are already installed. Rigidly constructed of reinforced plywood, covered with plastic-coated fabric in simulated wood finish. Acoustically padded. Plastic matching grille cloth. Specify blonde or walnut when ordering.

- MODEL SCB-8D. For use with 8" speaker. Volume, 680 cubic inches. Size (HWD): 15x17½x9¼". Shpg. wt., 6 lbs.  
 70 DX 336C. 6-Up, EACH... 7.73 1-5, NET EACH..... 8.18
- MODEL SCB-12D. For use with 12" speaker. Volume, 1240 cubic inches. Size (HWD): 20½x21x10¼". Shpg. wt., 8 lbs.  
 70 DX 337C. 6-Up, EACH... 10.42 1-5, NET EACH..... 11.02

## "PRESTIGE" WALL-MOUNTED BAFFLES

Attractive wall-type baffles for quick, easy installation of 8" or 12" speakers. Handsome wood-grain pyroxylin-covered enclosures feature latest "forward-front" design for pleasing effect and efficient dispersion of sound. Grille cloth styled in modern woven decorator pattern. Include speaker mounting hardware and convenient knock-out plug for installing individual speaker volume control. Available in choice of two beautiful finishes to complement any decorative surrounding. Specify blonde or walnut when ordering.

- MODEL PB-8. For 8" speaker. 10½x14x7". Wt., 3½ lbs.  
 70 DX 497C. 6-Up, EACH... 5.42 1-5, NET EACH..... 5.73
- MODEL PB-12. For 12" speaker. 13½x18½x9". Wt., 6½ lbs.  
 70 DX 498C. 6-Up, EACH... 7.65 1-5, NET EACH..... 8.09

## NEW "THINLINE" WALL BAFFLES

Modern, ready-to-use speaker-baffle combinations featuring Jensen "Profile" speakers for extremely shallow, space-conserving design, plus increased baffle width for improved appearance. Speakers employ high-efficiency ceramic magnets. WB-108AS is well-suited for low-level surround music, others are ideal for heavy-duty P.A. use. Attractive plastic grille, 8 ohms. "Have L-pad volume control wired to screw terminals. Specify walnut or blonde finish.

# Lowell

CEILING AND WALL BAFFLES

## NEW FLUSH-MOUNTING PLASTIC SPEAKER BAFFLES

Beautiful new high-impact "Styrene" plastic speaker baffles. Lightweight and durable, these smartly-styled baffles will not fade, chip or mar, and can be painted if desired, with any good Latex paint. Model ADS80-P has full 360° dispersion. Self-tapping speaker mtg. screws (supplied) cannot be seen from the front of the baffles. Metal enclosures (see below) have acoustic-treated interior, are easily installed. Specify beige or white baffle finish.

| Stock No. | Description                                       | Wt.    | NET  |
|-----------|---------------------------------------------------|--------|------|
| 90 DX 079 | ADS80-P Baffle for 8" ceiling spkr. 10x10"        | 8 oz.  | 3.52 |
| 90 DX 080 | CR80-P Baffle for 8" ceiling/wall speaker. 10x10" | 8 oz.  | 3.26 |
| 90 DX 082 | L35P Baffle for 3½" intercom speaker. 4½x7"       | 3 oz.  | 1.23 |
| 90 DX 081 | P875X Enclosure for ADS80, CR80, 8½x8½x3"         | 3 lbs. | 6.13 |
| 90 DX 083 | P22X Enclosure for L35-P. 6½x4x2"                 | 1 lb.  | 1.72 |

## FLUSH-MOUNTING BAFFLE ENCLOSURES

CP & XCP SERIES. Designed for mounting AL and RS baffles, below. CP types for new construction; have steel can and plaster ring. All have sound deadening material for quality reproduction. Shpg. wt.: CP6 and XCP6, 3½ lbs. each; CP8 and XCP8, 4½ lbs. each; CP1012 and XCP1012, 7½ lbs. each.

| Stock No. | Type    | Description                               | NET  |
|-----------|---------|-------------------------------------------|------|
| 95 DX 235 | CP6     | For RS6A. 7" I.D. x4"x11½" O.D.           | 4.28 |
| 95 DX 236 | CP8     | For AL8A, RS8A. 8½" I.D. x4½"x13" O.D.    | 5.29 |
| 95 DX 237 | CP1012  | For AL12A, RS12A. 12½" I.D. x7"x17½" O.D. | 7.25 |
| 95 DX 233 | XCP6    | For AL8A, RS8A. 8½" dia. x4½" deep.       | 4.73 |
| 95 DX 234 | XCP1012 | For AL12A, RS12A. 12½" dia. x7" deep.     | 6.39 |

Feature white birch veneer construction. Attractive plastic grille. With hardware. Specify blonde or walnut when ordering.

- MODEL DWB-8A. For 8" speaker. 10½x9½x6½". Wt., 3 lbs.  
 70 DX 491C. 6-Up, EACH... 5.60 1-5, NET EACH..... 5.8
- MODEL DWB-12A. For 12" speaker. 14x13½x9". Wt., 5 lbs.  
 70 DX 492C. 6-Up, EACH... 7.80 1-5, NET EACH..... 8.2

## LOW-COST WALL-MOUNTED BAFFLES

Economical wall baffles constructed of wood. Have attractive wood grain pyroxylin covering; can be painted. With hardware. Specify blonde or walnut finish when ordering.

| Stock No.  | Model   | Size        | Spkr. Size | Lbs. | 1-5  | EA.  | 6-UP | EA. |
|------------|---------|-------------|------------|------|------|------|------|-----|
| 70 D 493C  | WB-4/5C | 6½x6½x4"    | 4-5"       | 1½   | 2.89 | 2.73 |      |     |
| 70 D 494C  | WB-6C   | 8½x7½x5"    | 6"         | 2    | 3.53 | 3.34 |      |     |
| 70 D 494C  | WB-8C   | 10½x9½x6½"  | 8"         | 3    | 4.22 | 3.98 |      |     |
| 70 DX 495C | WB-10C  | 12½x11½x7½" | 10"        | 4    | 5.00 | 4.74 |      |     |
| 70 DX 496C | WB-12C  | 14x13½x9"   | 12"        | 5    | 5.73 | 5.43 |      |     |

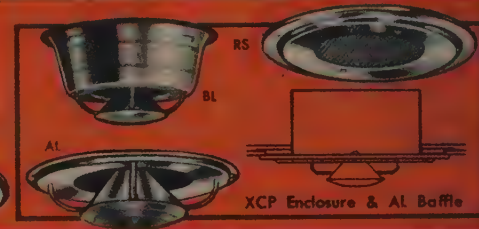
## STRAIGHT-FRONT BASS REFLEX CORNER BAFFLES

Fully enclosed baffles for corner installations. With hardware. Specify blonde or walnut when ordering.

- MODEL CB-8D. For 8" speaker. 14x12½x6½". Wt., 4½ lbs.  
 70 DX 338C. NET..... 7.3
- MODEL CB-12D. For 12" speaker. 20x18x9". Wt., 9 lbs.  
 70 DX 339C. NET..... 10.5

## WITH JENSEN PROFILE SPEAKERS

| Stock No.   | Model No. | Spkr. Size | Mag. Oz. | Watts | Baffle Size | Wt. Lbs. | NET EA. |
|-------------|-----------|------------|----------|-------|-------------|----------|---------|
| 70 DX 315-C | WB-108AS  | 8"         | 1        | 6     | 12x9½x4½"   | 3½       | 7.01    |
| 70 DX 316-C | WB-208S   | 8"         | 6        | 15    | 12x9½x4½"   | 4½       | 9.95    |
| 70 DX 317-C | WB-208SL  | 8"         | 6        | 15    | 12x9½x4½"   | 4½       | 12.35   |
| 70 DX 318-C | WB-212S   | 12"        | 10       | 18    | 16x13½x6½"  | 8        | 14.50   |
| 70 DX 319-C | WB-212SL  | 12"        | 10       | 18    | 16x13½x6½"  | 8        | 16.90   |



The BL, AL and RS baffles below, are available in anodized colors—Gold, Copper, Pink, Blue and Black. To order, use the word "Special" in place of Stock No. and specify color. For BL baffles, add \$3.00 per unit; RS baffles add \$1.50 per unit; for AL add \$2.25 per unit.

## SURFACE-MOUNTING BAFFLES

BL SERIES. Designed to enclose and conceal speaker without necessity for cutting holes in the ceiling. Made of spun aluminum, they are ideal for hotels, restaurants, department stores, lounges, wineries, music installations or any normal height ceiling area. Provide 360° sound coverage—quickly and easily installed flush to ceiling with toggle bolts. Housing has pressure-relief vents and is internally lined with ¾" jute to avoid resonance. Note colors, above.

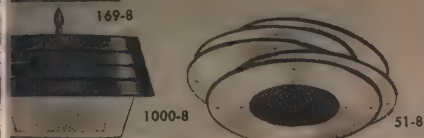
| Stock No. | Type   | Description                    | Lbs. | NET  |
|-----------|--------|--------------------------------|------|------|
| 95 DX 224 | BL8A   | For 8" speakers. 7½x14½" dia.  | 4    | 12.9 |
| 95 DX 225 | BL12-A | For 12" speakers. 9½x18½" dia. | 6½   | 15.8 |

RS & AL WALL AND CEILING BAFFLES. Aluminum baffles for installations in offices, restaurants, night clubs, etc. ½" mtg. flange. H. satin finish. RS types for recessed wall mounting; AL for recessed ceiling mounting. Require enclosures, at left.

| Stock No. | Type   | Description                 | Lbs. | NET  |
|-----------|--------|-----------------------------|------|------|
| 95 DX 240 | RS6-A  | For 6" speakers. 10½x7½"    | 1    | 2.94 |
| 95 DX 238 | RS8-A  | For 8" speakers. 12½x9½"    | 1    | 3.20 |
| 95 DX 239 | RS12-A | For 12" speakers. 16½x14½"  | 1¾   | 4.44 |
| 95 DX 227 | AL8-A  | For 8" speakers. 12½" dia.  | 1¾   | 7.17 |
| 95 DX 228 | AL12-A | For 12" speakers. 16½" dia. | 3¾   | 9.00 |



## Ceiling and Wall Baffles



### SQUARE BAFFLE AND PROTECTIVE ENCLOSURE

69-8 TRIM SQUARE BAFFLE. 24-gauge steel; white finish. With less spkr. Fits 193-8 below. 10 1/2" sq. 1 1/4 lbs.

077. 5-Up, EACH. 2.25 1-4, EACH. 2.50

193-8 ENCLOSURE. All-welded, undercoated, rust-resistant conduit knockouts. Less spkr. 9 1/2"x9 1/2"x3 3/4". 3 1/4 lbs.

078. 5-Up, EACH. 3.74 1-4, EACH. 4.16

### NEW MODEL 1000-8 OUTDOOR AUDIO-LITE

ation light and sound source for gardens, lawns, etc. Houses eaker plus two 60-watt bulbs that disperse a beautiful light milk white plastic surrounded by a white, perforated metal t. Upper housing is brushed aluminum. Weatherproof. Fits Less bulbs, speaker, pipe. 12 lbs.

076. 4-Up, EACH. 27.00 1-3, EACH. 30.00

### SERIES 95 PROTECTIVE ENCLOSURES

ve enclosures (cans) for installation in new or existing ceil- install in existing ceilings, enclosures are mounted through in flange. For new construction, 4 straps allow use in any ss of plaster. Has undercoating, jute lining. Less speaker.

| No. | Model | For Use With:    | O.D.    | Depth  | Lbs. | 1-4, EA. | 5-Up, EA. |
|-----|-------|------------------|---------|--------|------|----------|-----------|
| 975 | 95-8  | 61-8, 67-8, 68-8 | 9 1/4"  | 4 1/4" | 7    | 5.12     | 4.61      |
| 976 | 95-12 | 61-12            | 14 1/4" | 7"     | 8    | 7.38     | 6.64      |

68-8 LOW-CEILING BAFFLE. Attractive styling. Has brushed in sound diffractor to avoid beaming in low-ceiling use. rushed aluminum. For 8" speakers. O.D., 12 3/4". Requires ling hole. Use with 95-8 enclosure, above. 2 lbs.

072. 5-Up, EACH. 6.56 1-4, EACH. 7.29

### FLUSH MOUNTING BAFFLES

SERIES 61 TRIM RING BAFFLES. Highly polished, 20-gauge steel trim ring baffles. Offer attractive flush appearance when installed; will not buckle or "give" when bolts are driven in place. Less speaker. Hole size required in ceiling: 61-8, 8 1/2"; 61-12, 12 1/2".

| Stock No. | Model | Speaker | Enclosure | O.D.    | Lbs. | 1-4, EA. | 5-Up, EA. |
|-----------|-------|---------|-----------|---------|------|----------|-----------|
| 89 DX 973 | 61-8  | 8"      | 95-8      | 12 3/4" | 1    | 3.11     | 2.80      |
| 89 DX 974 | 61-12 | 12"     | 95-12     | 17"     | 1    | 4.25     | 3.82      |

SERIES 61-95 CEILING BAFFLE-SPEAKER-ENCLOSURE COMBINATION. Combination includes: 61-8 baffle; 95-8 enclosure; Quam 8A4 8" heavy-duty speaker. Requires 10" diameter hole. Impedance, 8 ohms. Shpg. wt., 9 lbs.

70 DX 088. Save \$2.00. ONLY. 12.33

MODEL 67-8 LOUVERED BAFFLE. Similar to air diffusers in appearance. Welded construction; carefully checked for vibration and rattle. For 8" speakers only. O.D., 12". Hole size required in ceiling, 10 1/2". Use with 95-8 enclosure, at left. Shpg. wt., 1 1/2 lbs.

89 DX 971. 5-Up, EACH. 4.29 1-4, EACH. 4.77

SERIES 67-95 CEILING BAFFLE-SPEAKER-ENCLOSURE COMBINATION. Combination includes: 67-8 baffle; 95-8 enclosure; Quam 8A4 8" heavy-duty speaker. Requires 10" dia. hole. Impedance, 8 ohms. Shpg. wt., 10 lbs.

70 DX 087. Save \$2.00. ONLY. 13.89

MODEL 51-8 TRIM RING BAFFLE. Low-cost steel baffle for extremely fast installation. Offers attractive flush appearance when installed—may be painted to suit any decorative motif. Hole size required in ceiling, 8 1/2". For use with 95-8 protective enclosure listed at left. Outer dia., 12 3/4". Shpg. wt., per pkg., 1 lb. 5 per package.

70 DX 089. NET PER PACKAGE. 7.95

## am P. A. SPEAKERS

U-shaped pot section for unbroken flux sufficient cross-section to carry the gy of the magnetic field. "Adjust- suspension firmly holds spider to with 2 screws instead of cement, for centering of the 1" voice coil. Alnico net. Have baked enamel finish, for matching transformer. 8 ohms. pe magnet. 8A6PAOT is weather- for outdoor use.



| No. | Mfr's Type | Size | Watts | Magnet Wt. | Lbs.  | EA    |
|-----|------------|------|-------|------------|-------|-------|
| 1   | 8A21PA     | 8"   | 8     | 2.15 oz.   | 1 1/2 | 4.82  |
| 2   | 8A31PA     | 8"   | 10    | 3.16 oz.   | 2     | 5.59  |
| 5   | 8A4PA      | 8"   | 12    | 4.64 oz.   | 2 3/4 | 6.47  |
| 16  | 8A6PA      | 8"   | 12    | 6.8 oz.    | 3 1/4 | 7.64  |
| 19  | 8A6PAOT    | 8"   | 12    | 6.8 oz.    | 3 1/4 | 8.06  |
| 3   | 10A31PA    | 10"  | 12    | 3.16 oz.   | 2 3/4 | 6.76  |
| 4   | 10A10PA*   | 10"  | 20    | 10.0 oz.   | 3 1/2 | 10.58 |
| 165 | 12A31PA    | 12"  | 12    | 3.16 oz.   | 3 1/4 | 7.03  |
| 137 | 12A4PA     | 12"  | 15    | 4.64 oz.   | 3 3/4 | 8.38  |
| 138 | 12A6PA     | 12"  | 15    | 6.8 oz.    | 4     | 9.38  |
| 140 | 12A10PA*   | 12"  | 25    | 10.0 oz.   | 4     | 11.73 |

### QUALITY SPEAKERS AT SPECIAL PRICES

ion of low-cost, high-quality speakers ideally suited for purpose indoor P.A. use.

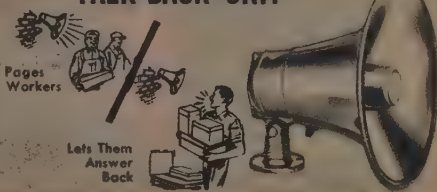
| No. | Size | Watts | Magnet Wt. | Lbs.  | 1-11, EA. | 12-Up, EA. |
|-----|------|-------|------------|-------|-----------|------------|
| 0   | 8"   | 8     | 2.15 oz.   | 1 1/2 | 3.29      | 2.91       |
| 1   | 8"   | 10    | 3.16 oz.   | 2 1/4 | 3.68      | 3.19       |
| 2   | 8"   | 12    | 6.8 oz.    | 3 1/4 | 5.15      | 4.41       |
| 783 | 12"  | 12    | 3.16 oz.   | 3 1/4 | 4.97      | 4.32       |
| 784 | 12"  | 15    | 6.8 oz.    | 4 1/2 | 6.31      | 5.46       |
| 785 | 12"  | 25    | 10.0 oz.   | 4 3/4 | 8.19      | 7.11       |

### 25 & 70-VOLT LINE-TO-VOICE-COIL TRANSFORMERS

25: 4, 8, 16 ohms, except \*4, 8, 170 v.; \$25 v.

| No. | Watt Taps              | Size          | Watts   | Lbs.  | 1-11, EA. | 12-Up, EA. |
|-----|------------------------|---------------|---------|-------|-----------|------------|
| 4   | 2, 1, 0.5              | 2 1/2"x3 1/2" | 2+ 1/2  | 1     | 1.95      | 1.49       |
| 5   | 5, 2.5, 1.25, .62      | 1 1/2"x5 1/2" | 5+ 1/2  | 1 1/4 | 2.58      | 1.99       |
| 6   | 10, 5, 2.5, 1.25, .62  | 1 1/2"x5 1/2" | 10+ 1/2 | 1 1/4 | 2.82      | 2.19       |
| 137 | 12A4PA                 | 1 1/2"x5 1/2" | 2+ 1/2  | 1 1/4 | 1.92      | 1.49       |
| 6   | 5, 2.5, 1.25, .62, .31 | 1 1/2"x5 1/2" | 5+ 1/2  | 1 1/4 | 2.76      | 2.09       |
| 9   | 10, 5, 2.5, 1.25, .62  | 1 1/2"x5 1/2" | 10+ 1/2 | 1 1/4 | 3.57      | 2.69       |

## KNIGHT PAGING and TALK-BACK UNIT



MODEL KN-80. Allied's own economy priced reflex-type general purpose paging and "talk-back" speaker. Features high efficiency, compact size and a built-in driver unit rated at a full 25 watts, continuous duty. Speaker boasts an unusually wide frequency response of 250 to 13,000 cps with a special rising frequency characteristic to assure excellent speech intelligibility even in extremely noisy surroundings. Speaker can be mounted directly on heavy machinery where it is necessary for the source of sound to be brought exceptionally close to personnel. Horn has 90° dispersion angle. Sensitivity of unit, when used as a microphone, is -26 dbm. Impedance, 8 ohms. Bell is 10 1/4" in diameter; overall length is 9". Supplied complete with mounting bracket. 4 lbs. Made in the U.S.

70 DX 387. NET. 15.50

MODEL KN-85. Similar to KN-80 above, but designed for use in lower power systems. Reflex-type driver unit is rated at 5 watts, continuous duty. Response, 400 to 13,000 cps. Dispersion, 120°. Impedance, 8 ohms. 7x6 1/2" dia. 3 1/4 lbs. Made in U.S.

70-D 388. NET. 12.75

### RECOMMENDED SPEAKER CABLE

In humid or dusty interiors, use outdoor type only.

OUTDOOR SPEAKER CABLE. 100-ft. coil. 7 lbs.

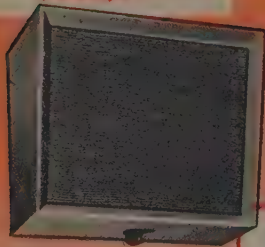
47 W 549. NET, Per 100 Feet. 6.23

POS INDOOR SPEAKER CABLE. 100-ft. coil. 3 lbs.

48W 763. NET, Per 100 Feet. 2.70

# Utah

## SPEAKER BAFFLE COMBINATIONS



**Baffle Made Exclusively for ALLIED**

**With Famous Dual Diameter Speakers  
... Deliver Twice the Sound Per Watt**



**8" Speaker Installed in Baffle With L-Pad Volume Control**

### 8-OHM SPEAKER-BAFFLE COMBINATION

Completely wired wall speaker-baffle combination featuring dual-diameter construction. Excellent choice as an extension speaker in the recreation room or den. Wide-range 8" speaker with L-pad volume control. Delivers twice the sound per watt! Power handling capacity, 10 watts. Impedance, 8 ohms. Size, 9½x12x6". Available in choice of mahogany or blonde finish. Shpg. wt., 6 lbs.

90 DX 072C. *Specify Finish.* NET.....13.95

70.7-VOLT SPEAKER-BAFFLE COMBINATION. Same as above, but for systems with 70.7 volt outputs. Shpg. wt., 7 lbs.

90 DX 073C. *Specify Finish.* NET.....15.95

8-OHM SPEAKER ONLY. With prewired L-pad on 18' cable, 3 lbs. 70 D 284. NET.....6.65

70.7-V. SPEAKER ONLY. As above, for 70.7 volt systems, 4 lbs. 70 D 285. NET.....8.65

BAFFLE ONLY—LESS SPEAKER. Mahogany or blonde. 3 lbs. 90 DX 084C. *Specify Finish.* NET.....7.50



**NOTE THE DIFFERENCE:**



**UTAH INVERTED SPEAKER**



**STANDARD SPEAKER**

### Baffle Made Exclusively for ALLIED EXTRA-THIN CEILING BAFFLE WITH DUAL-DIAMETER SPEAKER

A remarkable achievement in sound distribution—a fine performing speaker-baffle combination only 2½" thin! Eliminates the need for making ceiling cut-out—quickly mounts on ceilings ¾" to 1" thick with the mounting hardware supplied. Perfect for use with tiled or regular ceilings in homes, restaurants, department stores, offices, etc. The full range response of this extra-small unit is a result of an outstanding innovation in speaker design. The 8" speaker has been inverted—magnet and voice coil have been shifted to the front of the cone—producing fuller utilization of the speaker area without any loss of frequency response. The inverted design used here increases the dispersion pattern—offers wider distribution of voice or music—permits economy in custom installation for any given area. In addition, speaker has efficiency and power boosting dual-diameter design—the outstanding efficiency of the unit permits the use of smaller amplifiers. Speaker employs specially-machined, permanent magnet that combines two magnetic field alignments into a single, dual-diameter unit. Delivers twice the sound per watt. Capacity, 6 watts. Impedance, 8 ohms. Beige finish may be repainted to match existing color scheme. Size, 2½x12x12½". Shpg. wt., 3 lbs.

70 DX 389. NET.....8.95

70 D 085. Inverted Speaker Only. Shpg. wt., 3 lbs. NET.....5.65



**Bass Reflex Tuned Port—**

**Woofers for Smooth, Impressive Bass Response**

**Tweeter Extends High-Frequency Response**

## NEW! PICTURE THIN WALL SPEAKER SYSTEM



### Ultra-Smart Styling

- Easy to Hang—Hardware Provided!
- Easy to Connect—Screw Terminals!
- Extends Listening Area of Hi-Fi Systems!

### 2-WAY WALL-MOUNTING HI-FI SPEAKER SYSTEM

A complete two-way speaker system designed for wall mounting. Ideal for use in high-fidelity systems where floor space is limited—also makes an excellent remote speaker which can easily be carried from room to room or out on the patio for summer-time listening. Now, you may add a third channel to your stereo system to eliminate the hole-in-the-middle effect—without disturbing room decor. System consists of a 6x9" woofer featuring inverted construction to conserve depth, and using dual-diameter magnet structure to give twice the sound per watt; a high-efficiency 3x5" cone-type tweeter with 2000 cps crossover fills in the mid-range and extends the high-frequency response; a tuned port in the baffle lowers the bass frequency response and gives a bass reflex effect. Unique speaker design reduces depth of baffle to only three inches—the whole system can be hung on a wall as easily as hanging a picture—screw slots and "S" hooks are provided. Baffle is ruggedly constructed to eliminate disturbing vibrations and rattles. Modern-styling, attractive furniture finish and matching grille cloth make this baffle suitable for use in apartments, rumpus rooms, dens, offices, schools, restaurants, etc. Power handling capacity is 8 watts. Impedance is 8 ohms. Available in mahogany, blonde, or walnut—specify finish when ordering. Size, 12x18x3". Shpg. wt., 4½ lbs.

70 DX 250C. *Specify Finish.* NET.....15.85



## EXTRA THIN

**Utah's Exclusive Thin Profile Speaker-Baffle with Inverted, Dual-Diameter Speaker.**

### EXTRA-THIN WALL SPEAKER BAFFLE

Thin-silhouette wall speaker-baffle combination. Features remarkable 8" inverted speaker with dual-diameter design that gives twice the sound per watt. Streamlined, sloping baffle can be hung anywhere—excellent for offices, dens, patios, and other extension applications. Comes complete with hardware and instructions. Convenient screw terminals. Power handling capacity, 6 watts. Impedance, 8 ohms. Natural finish may be repainted at any time to match surrounding decorative motif. 9" high, 12" wide and 4" deep. Available choice of three handsome woodgrain finishes: mahogany, blonde or walnut—specify finish when ordering. Shpg. wt., 3½ lbs.

70 DX 086C. NET.....10.95



# There's More for the Amateur at **ALLIED**

## KING-SIZE TRADE-INS

is making bigger and better de-in deals on used Ham equipment. Now is the time to trade in your old gear and modernize your station. Write today—describe your trade-in. We'll get a terrific deal from Allied!

## EASY TERMS

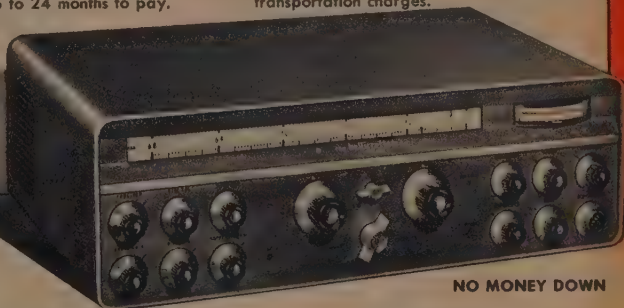
Get more fun from Ham Radio—enjoy the latest station gear. Allied's new Credit Fund Plan provides you with 50% more buying power. No money down. Low monthly payments. Take up to 24 months to pay.

## FREE HOME TRIAL

Buy any Amateur equipment we sell—then check its performance in your home. If for any reason you are not completely satisfied, return the equipment for a full refund, less only transportation charges.

### How to Select a Receiver

Communications receivers are classified in two groups—(1) *General-Coverage* types which tune the broadcast band and short-wave, including amateur bands; (2) *Amateur* types which cover amateur bands only. General-Coverage receivers are identified by two symbols ; Amateur receivers identified by one symbol .



NO MONEY DOWN

## NEW! hallicrafters Model FPM-200 Transceiver AM-SSB-CW FIXED/PORTABLE/MOBILE STATION!

- Very Compact—Only 5x16x11"
- 200 Watts PEP Input, 80 through 10
- Uses 39 Transistors, 3 Tubes
- Lock-in or Independent Tuning

An outstanding advancement in transistorized communications equipment—provides the ultimate in operating enjoyment. This fully self-contained transmitter-receiver operates on all bands from 80 through 10 meters on AM, SSB or CW. Utilizes a combination of 39 transistors and 3 tubes—the receiver and low-level transmitter circuits are completely transistorized. Has voltage-regulated transistorized power supply. Receiver section includes an additional position for reception of WWV on 10 mc. Slide-rule dial divided directly into 500-kc ranges reads frequency directly. Selector switch permits instant choice of independent trans-

mitter and receiver frequency control or simultaneous, lock-in frequency control using either transmitter or receiver VFO. Has built-in 100-kc crystal calibrator. Transmitter has two crystal filters; CW monitor. Delivers 70-100 watts SSB output, 90 watts CW and 20 watts AM. Side-band suppression is 50 db; carrier is 50 db down. Receiver sensitivity 3  $\mu$ v for 10 db sig. noise ratio; selectivity 2.8 kc at 6 db. AC power supply contains speaker and key jack. Power supply, 5x7x11". Transceiver, 5x16x11". For 110-120 VAC or 12 v. DC neg. ground, 62 lbs.

77 SZ 946. NET. **1995.00**

### NEW! HALLICTRAFTERS "TRANSVERTERS"

EL HA-2. A new approach to VHF operation. Changes 10-meter AM, SSB or CW transmitter output to 2 meters. Converts 2-meter signals to 10 for reception. 5896 out-tube for 60 watts PEP. Requires 100 watts drive. 6CW4 nuvistor receiver. Plate meter. Less power supply (w. 8x17x8 3/4"). Wt., 26 lbs.

SU 943. NET. **349.50**

SU 944. Model HA-6. As above, but for 2 meters. Wt., 26 lbs. NET. **349.50**

SU 945. Model P-26. Power supply for 2 or HA-6, size, 7 1/2 x 8 3/4 x 8 3/4". 115 v., cycle AC. 29 lbs. NET. **99.50**

## NEW! HALLICTRAFTERS DELUXE AM-CW-SSB EQUIPMENT



### MODEL HT-32B TRANSMITTER

Extremely efficient and versatile table-top transmitter. Operates AM, CW, and 10 on 80, 40, 20, 15, and 10 meters. Added beam-switching modulator develops a stable signal. Other features; 1-knob beam-switching, direct-reading 1000-cycle CW break-in, VOX, teletype keying, patch input, logarithmic meter, pre-on gear-driven VFO. Unwanted side-band, at least 50 db down; distortion products, 30 db down, carrier, 50 db down. Two 100-watt amplifiers for up to 144 watts max. In attractive gray and black steel cabinet with brushed chrome trim. Size, 10 1/2 x 16 1/2 x 16 1/2". For operation from 105-125 v., 50-60 cycle AC. Wt., 86 lbs.

SZ 146. NET. **725.00**

### MODEL HT-33B AMPLIFIER

Run a full 1-kw input with this new linear amplifier. Perfect companion for the HT-32B; offers bandswitching coverage of 80-10 meters. Uses PL-172 in "Zero-Drive" class AB<sub>1</sub> for extended tube life. Deluxe features include: RF output and cathode meters, variable pi-network loading, circuit breaker, fused amplifier screen grid. Stable passive grid with any 100-watt exciter. Built-in power supply has two 3B2 tubes. Has octal plug for bias cut-off relay control and AC control circuits. Housed in attractive gray and black steel cabinet. 10 1/2 x 20 x 17". For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 130 lbs.

77 SZ 948. NET. **995.00**

### MODEL SX-115 RECEIVER

An entirely new class of deluxe, triple-conversion receiver employing a Bandpass filter front-end—equals 4 tuned circuits before 1st mixer. Spurious signals and images are 60 db down! Other outstanding features include: crystal-controlled 1st and 3rd oscillators, gear-driven linear dial mechanism, dual-loop AVC, "T" notch, separate product and AM detectors, band gain equalization, dual noise limiters. Covers 80 through 10 meters in eight 500-kc segments, plus 9.5-10 mc for WWV/WWVH. AM sensitivity, 1  $\mu$ v; SSB/CW, 1/2  $\mu$ v. 5-step selectivity from 500-5000 cps. Gray and black steel cabinet. Size, 10x16x16". For 105-125 v., 50-60 cycle AC. Wt., 47 lbs.

83 SZ 652. NET. **595.00**

Allied Stocks All the Latest Hallicrafters Amateur Gear



### ☐☐ SX-62A ALL-WAVE RECEIVER

Unique all-wave receiver offers remarkably wide coverage of AM broadcast, FM and shortwave bands—continuously tunes from 540 kc to 109 mc! Precision built to exacting standards. Six ranges: 540-1620 kc; 1620 kc-4.9 mc; 4.9-15 mc; 15-32 mc; 27-56 mc (AM-FM); 54-109 mc (AM-FM). Push-pull output for 10 watts of full-range audio.

Other deluxe features include: slide-rule dial; 60-to-1 ratio tuning; 500-kc calibrating crystal; 2—RF and 3—IF stages for high sensitivity; crystal filter which provides 6-step selectivity; separate RF and audio gain controls; BFO for CW reception; AVC and automatic noise limiter (ANL); voltage-regulated oscillator. Has 4-position tone control; 3, 2, 8 and 500-ohm speaker outputs. In handsome, sturdy, black steel cabinet, 10 1/2 x 20 x 16". Less speaker. (See R-47 and R-48 speakers listed below). For 105-125 v., 50-60 cycle AC. Wt., 66 lbs.

97 SZ 540. NET. 395.00

### 1-KW LINEAR AMPLIFIER

Ideal Companion for HT-37 & SX-111



### HT-41 LINEAR AMPLIFIER

Beautifully engineered with conservatively rated components, the HT-41 provides bandswitching coverage from 80 through 10 meters. Operates SSB-CW from 80 through 20 meters with 1000 watts input; slightly less on 10 meters. AM phone input is 450 watts. Can be driven by any SSB exciter delivering 20-100 watts. Uses grounded grid, class B amplifier circuit with 2—7094 output tubes. Has complete metering of all important circuits, RF output meter to simplify tuning, standby bias supply, etc. Pi-network matches 40-75 ohms, 9 1/2 x 18 x 16 3/4". For 105-125 V., 97 lbs.

77 SZ 989. NET. 395.00

### MATCHING SPEAKERS

R-47. Designed specifically for speech and CW reproduction—extremely effective on SSB. Has flat response from 300 to 2850 cps with a rapid drop in output above and below the cutoff frequencies. For use with receivers on this page and on the facing page. Impedance: 3.2 ohms. Size: (HWD) 5 1/2 x 5 1/4 x 3 1/2". Shpg. wt., 2 1/2 lbs.

92 S 392. NET. 12.95

R-48. Has switch for full fidelity or voice response. For receivers on this page and on facing page. Impedance: 3.2 ohms. 6 3/4 x 13 1/4 x 8 1/4". Wt., 9 lbs.

77 SX 789. NET. 19.95



### ☐☐ S-108 RECEIVER

Supersedes the renowned S-85 series. Completely restyled for improved operating ease and greater tuning accuracy. Tunes 540 kc to 34 mc continuously in 4 ranges.

Features include: Bandsread dial calibrated for 80, 40, 20, 15 and 10-meter bands; RF amplifier; 2—IF amplifiers; BFO with variable pitch control; automatic noise limiter; 3-position tone control; built-in 5" PM speaker; 4 tuning ranges—standard broadcast plus 3 shortwave bands. Has temperature-compensated oscillator; slide-rule dial; standby-receive switch; automatic volume control; and convenient panel jack for plugging in headphones.

In steel cabinet finished in gray with silver trim. 7 tubes plus rectifier. Size, 8 7/8 x 18 1/2 x 10". For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 36 lbs.

77 SU 787. NET. 139.95



### ☐☐ S-107 RECEIVER

An outstanding value in a handsomely styled general-coverage receiver. Five ranges cover standard AM broadcasts from 540 kc to 1630 kc, shortwave from 2.5 to 31 mc, and 48 to 54.5 mc. Also has separate electrical bandsread with 0-100 logging scale.

Includes: large slide-rule dial for maximum readability, built-in noise limiter, phone input/audio output jack. Accommodates antennas from 50 to 300 ohms impedance—balanced or unbalanced. Has front panel phone jack with universal output impedance for headphones; built-in 5" PM speaker.

Tuning ranges: 540-1630 kc; 2.5 to 6.3 mc; 6.3 to 16 mc; 14 to 31 mc; and 48 to 54.5 mc. Bandsread tuning calibrated for 48 to 54.5 mc. Gray steel cabinet. 7 tubes plus rectifier. 1 x 13 1/4 x 8 7/8". For 105-125 v., 50-60 cycle AC. Shpg. wt., 18 1/2 lbs.

77 SX 785. NET. 94.95

## COMPLETE LOW-COST

### SSB-AM-CW STATION



### NO MONEY DOWN

### HT-37 TRANSMITTER

This moderately-priced, value-packed transmitter brings SSB within everyone's reach. Offers 70 to 100 watts PEP output on CW or SSB, 17-25 watts output on AM. Retains the characteristics which made its "big brother," the HT-32A famous. Covers 80-10 meters. Includes: VFO with double-reduction disc drive; sideband suppression of 40 db at 1000 cps; carrier suppression of 40 db or better; calibration system which permits instant CW CAL from any transmission mode; efficient VOX. Final has 2—6146's. 9 1/2 x 18 1/4 x 16 3/4". For 105-125 v., 50-60 cycle AC. Wt., 80 lbs.

77 SZ 838. NET. 450.00

### ☐☐ SX-111 SELECTABLE SSB RECEIVER

This popularly-priced dual-conversion, selectable-sideband communications receiver offers most of the outstanding features of the famous SX-101. Covers 80-10 meters in 5 bands; 6th band tunes 10 mc for receiver. WWV. Features high mechanical and electrical stability; 1-uv sensitivity; 5 steps of selectivity, from 500 to 5000 cycles; upper or lower sideband selection; crystal calibrator; separate CW/SSB and AM detectors; "Tee-Notch" filter; S-meter, 12 tubes plus VR and rectifier. 8 1/2 x 18 1/2 x 11". Less speaker. (See R-47, R-48, left). For 105-125 v., 50-60 cycle AC. 40 lbs.

77 SZ 896. NET. 279.50

### no money down

### ☐☐ SX-110 RECEIVER



Has Calibrated  
Electrical Bandsread ...  
Crystal Filter for High Selectivity

An outstanding value in a medium-priced communications receiver, the SX-110 features excellent circuitry and quality components to assure peak performance. Provides full coverage of all frequencies from 540 kc to 34 mc in 4 ranges. Bandsread dial is calibrated for 80-75, 40, 20, 15 and 10 meters. "S" meter is calibrated in units of 6 db to S9 and in db above S9. Has crystal filter for sharp selectivity; RF stage and 2 IF stages for high sensitivity; BFO with pitch control; automatic noise limiter (ANL); tone control, 8 1/2 x 18 1/2 x 11". Less speaker (See R-47, R-48 at left). For 105-125 v., 50-60 cycle AC. 36 lbs.

77 SU 784. NET. 169.95





## EVERY REFINEMENT FOR SSB, CW, AM RECEPTION

Provides Excellent Reception  
Of All Three of These Popular  
Modes of Transmission

NO MONEY DOWN



## amous With Hams Everywhere

### ☐ SX-101A SSB RECEIVER

lux communications receiver offering a high degree of mechanical and electrical stability. Has 1- $\mu$ v sensitivity on all bands and 5 cps of selectivity from 500 to 5000 cps. Ranges: 3.5-4.0 mc; 7.0 to 14.0; 14.0 to 14.4 mc; 21.0-21.5 mc; 28.0-29.7 mc—all Ham bands from 80-10 meters. Dial calibrated for 6 and 2-meter bands. Zero-beating with WWV. Features crystal-controlled 2nd conversion oscillators; Tee-notch filter; gear drive tuning—50:1 ratio; 1-kc crystal calibrator; dual-scale S-meter; noise limiter; product detector for SSB, 14 tubes plus VR and rectifier. 10 $\frac{1}{2}$  x 20 x 17". Less speaker. (See R-48 and R-47 on opposite page.) For 105-125 v., 50-60 cycle AC. Shpg. wt., 85 lbs.

SZ 769. No Money Down. NET.....

445.00

NEW!

### ☐☐ SX-112 RECEIVER

An outstanding new receiver offering excellent general coverage reception, plus professional, communications-type performance on the Ham bands. Provides exceptional SSB, CW and AM reception on all frequencies from 540 kc to 35 mc. Features calibrated bandspread on the 80, 40, 20, 15 and 10-meter bands. General coverage consists of the 540-1550 kc broadcast band plus 4 additional bands covering 1.8 to 35 mc. 1- $\mu$ v sensitivity on all bands; 5 steps of selectivity from 500-5000 cps. Has dual conversion, S-meter, crystal-controlled 2nd conversion oscillator. Tee-notch filter, crystal calibrator, noise limiter, separate detectors for AM and SSB. CW. 10 $\frac{1}{2}$  x 20 x 17". Less speaker. (See R-48, R-47 on opposite page.) For 105-125 v., 50-60 cycle AC. Shpg. wt., 90 lbs.

77 SZ 986. No Money Down. NET..... 595.00

## COMPLETE HAM STATION

### NEW DELUXE HA-5 VFO

Self  
Powered

Highly  
Stable



NO MONEY DOWN



Very extremely stable, self-powered heterodyne-type VFO. Illuminated dial is calibrated for all Ham bands from 80-2 meters. May be directly calibrated to WWV. 1 tuning ratio for precise tuning. Heterodyne system assures excellent keying; keying is accomplished in cathode of mixer tube. Range: 5.0-5.5 mc. Output: 3.5-4.0, 7.5, 7.8-8.3, 8.333-8.833 mc. 5 x 7 x 8 $\frac{1}{2}$ ". For 105-125 v., 60 cycle AC. 8 lbs.

S 912. No Money Down. NET. 79.95

### KING-SIZE TRADE-INS EASY PAY TERMS

#### GUIDE TO RECEIVER SYMBOLS

- ☐ Indicates Ham Bands Only
- ☐☐ General Coverage, Ham and SWL

### HT-40 TRANSMITTER

Carefully designed CW-AM transmitter with features for old-timer as well as novice. Has smart, modern styling—a perfect match for the SX-140 receiver at right. Bandswitching coverage of the 80-6 meter Ham bands. Operates with 75 watts peak input (AM slightly less on 6 meters). Crystal controlled; has provision for external VFO.

Hum and noise are down 35 db or more. Efficiently TVI filtered; 52-ohm tunable pi-network output provides harmonic suppression. Dual range meter for accurate tuning, carrier adjustment. 6 $\frac{1}{2}$  x 13 $\frac{1}{2}$  x 8 $\frac{1}{2}$ ". For 105-125 v., 50-60 cycle AC. 19 lbs.

78 SZ 149. NET..... 109.95  
77 SZ 987. HT-40K Transmitter Kit. As above, but in kit form. Wt., 19 lbs. NET. 89.95

### ☐ SX-140 RECEIVER

High-performance, low-cost Amateur band receiver. Provides excellent CW, AM, and SSB coverage on the 80-6 meter Ham bands. High sensitivity; sharp selectivity. Has slide-rule dial with high tuning ratio. A perfect match for the HT-40 (left).

Includes: S-meter; electrical calibration reset; automatic noise limiter; crystal calibrator; built-in crystal oscillator circuit for IF alignment; antenna trimmer; internal circuits for controlling transmitter and antenna changeover. 6 $\frac{1}{2}$  x 13 $\frac{1}{2}$  x 8 $\frac{1}{2}$ ". Less speaker. (See R-48, R-47, facing page.) For 105-125 v., 50-60 cycle AC. 14 lbs.

78 SZ 148. NET..... 124.95  
77 SZ 988. SX-140K Receiver Kit. As above, but in kit form. Wt., 14 lbs. NET. 104.95



NEW!

### COMPACT STYLING 550-KC TO 30-MC COVERAGE

Electrical Bandspread with  
Large Slide-Rule Bandspread  
Dial Covers Broadcast Band  
Plus 3 SW Bands



### ☐☐ SX-100 SELECTABLE SIDEBAND RECEIVER

Popular communications receiver with an array of outstanding features. Has selectable sideband and dual conversion; adjustable 50.5 2nd IF with 4 hi-Q permeability tuned circuits for high selectivity. Covers 538-1530 kc and 1720 kc to 34 mc in 4 ranges. Includes 10-kc crystal calibrator, bandspread for Ham bands 80-10 meters. Crystal-controlled 2nd conversion oscillator. 11 tubes; VR and tifier. Metal case. 2 $\frac{1}{2}$  x 18 $\frac{1}{2}$  x 10 $\frac{1}{2}$ ". For 105-125 v., 50-60 cycle AC. Less speaker. (See R-47, R-48 on facing page.) 43 lbs.

SU 769. No Money Down. NET..... 325.00

### NEW! ☐☐ S-120 AM-SW RECEIVER

General-coverage receiver featuring extra-large slide-rule bandspread dial and modern, compact styling. Tunes the 550-1600 kc broadcast band plus 3 shortwave bands covering 1600 kc to 30 mc. Has 3 separate antennas—a ferrite loop for the broadcast band, an adjustable whip for shortwave, and a wire antenna. Other features include: front panel BFO/selectivity control; headphone jack which disconnects built-in speaker. Gray steel cabinet with silver trim. 5 $\frac{7}{8}$  x 13 $\frac{1}{2}$  x 8 $\frac{3}{4}$ ". For 105-125 v., 50-60 cycle AC, or DC. 11 $\frac{1}{2}$  lbs.

78 SX 209. No Money Down. NET..... 69.95

Items with U or Z in Stock Number Shipped by Truck or Express

# Collins

NO  
MONEY  
DOWN

## KWM-2 TRANSCEIVER

Provides Reliable  
SSB Operation  
in Mobile, Marine,  
or Fixed Station  
Installations

Has RF Inverse  
Feedback, Automatic  
Load Control



NO MONEY DOWN



### NEW! 500-Watt Linear Amplifier

**MODEL 30L-1.** Compact, efficient SSB-CW linear amplifier. Operates at 1000 watts P.E.P. input (500 watts nominal output), providing excellent coverage of the 80, 40, 20, 15 and 10 meter Amateur bands. Has sufficient overlap to allow general coverage from 3.4 to 30 mc. Can be driven by any exciter delivering 70 to 100 watts output.

Features include: RF inverse feedback; automatic load control; high-low power switch; self-contained power supply with silicon rectifiers. Tube complement consists of 4-811A triodes. Panel meter monitors final amplifier plate current, plate voltage and tuning circuit. Antenna is automatically transferred to exciter when the 30L-1's switch is in "Off" position. Unit has 52-ohm output.

Size, 6 $\frac{1}{2}$ x14 $\frac{1}{2}$ x13 $\frac{3}{4}$ ". For 115/230 v., 50-400 cycle AC. Shpg. wt., 39 lbs.  
77 SU 979. NET. **520.00**



### 30S-1 LINEAR AMPLIFIER

Highly efficient, single-tube, grounded-grid linear amplifier—the perfect companion for the 32S-1 or any other transmitter or exciter delivering 70 to 100 watts of driving power. Provides the full legal power input for SSB (1 kw average) or 1 kw input for CW. Has front panel bandswitching; frequency ranges are: 3.5-4.0 mc, 7.0-7.3 mc, 14.0-14.4 mc, 21.0-21.45 mc, 28.0-29.7 mc.

Power amplifier is an Eimac 4CX1000A. Incorporates inverse feedback for better linearity. Automatic load control voltage from amplifier is fed back to transmitter. In handsomely styled floor-mounted cabinet. Power supply for unit, housed in cabinet, provides cathode bias voltage and 3000 volts for the 4CX1000A plate. Space is also provided for 516F-2 power supply of the 32S-1. Has quiet, efficient air blower. 30 $\frac{3}{4}$ x17x16 $\frac{1}{2}$ ". For 115 or 230 v., 50-60 cycle AC. Shpg. wt., 160 lbs.  
83 SZ 896. NET. **1556.00**

### THE ULTRA-COMPACT KWM-2—SSB-CW—80-10 METERS

Modern styling and easy mobility make this lightweight SSB-CW transceiver an ideal unit for mobile, marine or fixed station use. Covers the 80 through 10 meter Amateur bands plus 14.8 to 15.0 mc for receiving WWV. Power input is 175 watts P.E.P. on SSB; 160 watts on CW. Provides upper or lower sideband emission on SSB and keyed tone on CW. Highly efficient filter type SSB generation provides carrier suppression of 50 db; unwanted sideband suppression of 50 db. Receiver sensitivity is  $\frac{1}{2}$   $\mu$ v for 10 db S/N ratio on all bands.

Has permeability-tuned variable oscillator and crystal-controlled, HF dual-conversion oscillator. 6 $\frac{1}{2}$ x14 $\frac{1}{2}$ x13 $\frac{3}{4}$ ". Less power supply (below). Shpg. wt., 17 lbs.  
77 SU 839. NET. **1150.00**

**MODEL MP-1 12 VOLT DC POWER SUPPLY.** 5 $\frac{3}{4}$ x11 $\frac{1}{2}$ x7 $\frac{3}{4}$ ". 13 lbs.  
77 SU 931. NET. **198.00**

**MODEL 516F-2 115 V. 50-60 CYCLE AC POWER SUPPLY.** 7 $\frac{3}{4}$ x10x12". 29 lbs.  
94 SU 866. NET. **115.00**

### ACCESSORIES FOR MODEL KWM-2 TRANSCEIVER

**MODEL 312B-5 SPEAKER CONSOLE AND EXTERNAL PTO FOR THE KWM-2.** Combines the KWM-2 and accessories into a fixed station system. Houses speaker, RF directional wattmeter, phone patch and function controls. Provides the following combinations of frequency control: transceive on KWM-2 PTO; transceive or 312B-5 PTO; receive on KWM-2 PTO and transmit on 312B-5 PTO. 7 $\frac{3}{4}$ x10x12 $\frac{1}{4}$ ". Shpg. wt., 10 lbs.  
94 SU 559. NET. **350.00**

**MODEL 312B-4 CONSOLE.** As above, but less PTO. For "S" line or KWM-2, 10 lbs.  
92 SU 395. NET. **195.00**

**MODEL PM-2 PORTABLE POWER SUPPLY.** For 115/220 v., 50-400 cycle AC. 6 $\frac{7}{8}$ x4x14 $\frac{1}{4}$ ". With built-in speaker. Shpg. wt., 15 lbs.  
77 SU 932. NET. **150.00**

**MODEL 136B-2 NOISE BLANKER.** Effectively eliminates impulse interference. 13x8x8". For 110-120 v., 50-60 cycle AC. Wt., 4 lbs.  
77 S 843. NET. **124.00**

**MODEL 312B-3 SPEAKER.** 7 $\frac{3}{4}$ x10x8". 4 lbs.  
92 SX 394. NET. **32.00**

**MODEL 351D-2 MOBILE MOUNT FOR KWM-2.** For dash mounting KWM-2. Wt., 18 lbs.  
99 SU 958. NET. **120.00**



### 32S-1 SSB TRANSMITTER

Ultra-compact SSB-CW transmitter. Input is 175 watts P.E.P. on SSB; 160 watts on CW. The 32S-1 offers exceptional operating convenience and superior all-around performance. An ideal companion for the 75S-1.

Features include: mechanical filter-type SSB generator, permeability-tuned VFO, upper or lower sideband operation, RF inverse feedback 10 db audio compression (ALC) and VOX. 2-6146 final. Frequency control system consists of VFO with crystal oscillator that accommodates 13 heterodyne crystals—permits coverage of any 13-200-kc ranges from 3.4-30 mc. 11 crystals supplied cover 80 through 15 meters, and 28.5-28.7 mc. (2 open crystal positions can be used to cover 2 more ranges on 10 meters.)

Overall frequency stability after warm-up is within 100 cps. Provides 10 db audio compression and 50 db suppression of carrier, unwanted sideband, and oscillator feed-through and mixer products. Has 600-ohm phone patch input. Output impedance is 50 ohms. 6 $\frac{7}{8}$ x14 $\frac{1}{2}$ x11 $\frac{1}{2}$ ". Less power supply (below). Shpg. wt., 17 lbs.  
94 SU 865. NET. **666.00**

**516F-2 POWER SUPPLY.** For 32S-1. With cables. For 110-120 v., 50-60 cycle AC. 7 $\frac{3}{4}$ x10x12". Shpg. wt., 29 lbs.  
94 SU 866. NET. **115.00**



### 75S-1 SSB RECEIVER

Advanced-design receiver for SSB. AM and CW. Use alone, or with the 32S-1 transmitter to make a compact, efficient station. Receiver VFO can be used to control both units for transmitter operation. Tuning system consists of VFO with crystal oscillator that accommodates 14 heterodyne crystals—for coverage of any 14-200-kc ranges from 3.4-30 mc. 12 crystals supplied provide coverage of 80, 40, 20 and 15 meters, WWV and 28.5-28.7 mc. (2 open crystal positions cover 2 more ranges on 10 meters.)

Has dual conversion with crystal-controlled 1st oscillator, bandpass 1st IF, permeability-tuned VFO (stable within 100 cps), mechanical filter for high selectivity and sideband selection. 100-kc calibrator and product detector. Other features are: use of only 150 volts on tube plates; choice of 3 degrees of selectivity—2.1 or 0.5 kc with mechanical filter, or IF transformers for AM.

Signal-plus-noise-to-noise ratio is 10 db for 1  $\mu$ v CW input. If rejection is better than 70 db, image rejection is better than 60 db. Internal power supply may be disabled when using 75S-1 with 32S-1 and 516F-2 supply. Less speaker (see accessories column). 6 $\frac{7}{8}$ x14 $\frac{1}{2}$ x11 $\frac{1}{2}$ ". For 110-120 v., 50-60 cycle AC. 21 lbs.  
92 SU 383. NET. **520.00**





Smartly Designed, Matching  
Speaker For NC-190 & NC-270



## NATIONAL—Precision Receivers "Tuned to Tomorrow"

### NEW NC-190 RECEIVER

cost, general coverage receiver with a host of important features. Exclusive "Ferrite Filter" provides true variable IF selection and instant sideband selection; dual-conversion circuit assures accurate image rejection and IF selectivity. The NC-190 tunes from 30 mc—has 5 calibrated bandspread ranges covering the 80 through 10-meter bands; 6 calibrated bandspread ranges covering the 49, 31, 25, 19, 16, and 13-meter foreign bands. Sensitivity is better than 1.0  $\mu$ volts for 10 db S/N ratio; selectivity is 600 to 5000 cps. Tuning control has 12:1 step-down with pinch type drive for smooth inertia tuning. IF frequencies 1st, 2215 kc; 2nd, 230 kc. Other features include: separate ic detector for SSB/CW reception; built-in noise limiter; meter; stand-by-receive switch with contacts for external front panel phone jack. "Flip Foot" tilts panel for maximum tuning convenience. 8 $\frac{3}{4}$ "x15 $\frac{1}{2}$ "x9". Less speaker, right, 8 tubes, 100-125 v., 50-60 cycle AC. Shpg. wt., 28 lbs. **U 930. No Money Down. NET.....199.50**

### NC-270 RECEIVER

Precision-made, dual-conversion receiver offering deluxe features at a surprisingly low price. Covers 80 through 6 meter Amateur bands. Has built-in 100-kc crystal calibrator; patented "Ferrite Filter" for instant sideband selection and excellent selectivity; sensitivity of better than 1.0  $\mu$  v for 10 db S/N ratio; ANL "S" meter; plus other quality features. Tuning control has 12:1 ratio with pinch-type drive for precise/inertia tuning. Has separate linear diode detector for AM; product detector with separate BFO for CW. Ceramic coil forms, double-spaced tuning gang and full ventilation provide exceptional stability. Less speaker, below, 9 tubes, rectifier, 8 $\frac{3}{4}$ "x15 $\frac{1}{2}$ "x9". For 105-125 v., 50-60 cycle AC. Shpg. wt., 28 lbs. **78 SU 150. No Money Down. NET.....249.95**

### MATCHING SPEAKER FOR NC-190 AND NC-270

NTS-3 MATCHING SPEAKER. 8 $\frac{3}{4}$ "x5 $\frac{1}{2}$ "x4 $\frac{1}{4}$ ". Shpg. wt., 5 lbs. **19.95**  
**78 SX 151. NET**



### NC-303 RECEIVER

Amateur-band receiver featuring much mechanical and electrical variety. Covers 160 through 10 meters—through 1 $\frac{1}{2}$  meters and WWV with accuracy listed below. Provides dual conversion with 5 positions of selectivity—down to 400 cps; to 8 kc at 6 db down, instant upper-lower sideband selection, multiplier provides 60 db tunable notch, separate noise limiters for AM and SSB. Has vernier dial. In sturdy, handily styled cabinet. Size, 11 $\frac{1}{4}$ "x19 $\frac{1}{2}$ "x15", operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 64 lbs. **Z 384. NET.....449.00**

below for NC-300 or 303. \*NC-303 only.

870. NC-300C6A 6-Meter Converter. Wt., 2 lbs. No Money Down. NET 41.95

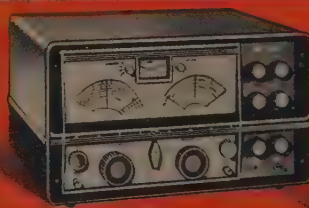
871. NC-300C2 2-Meter Converter. Wt., 2 lbs. No Money Down. NET 43.95

872. NC-300C1 1 $\frac{1}{2}$ -Meter Converter. Wt., 2 lbs. No Money Down. NET 45.95

873. NC-300XCU-2 100-kc Crystal Calibrator. Wt., 1 lb. No Money Down. NET 23.95

898. XCU-303 Crystal Calibrator. Wt., 1 lb. 1 $\frac{1}{2}$  lbs. NET.....34.95

897. NTS-2 Matching Speaker. Shpg. 12 lbs. No Money Down. NET.....21.95



### NC-400 RECEIVER

An outstanding communications receiver. Features extremely high sensitivity and selectivity. Has exceptional stability—only .002% long-term drift after warm-up. Covers 540 kc to 31 mc in 7 bands. Has two RF stages; "S" meter; diversity facilities.

High frequency oscillator may be tuned manually, crystal controlled or fed from an external oscillator. Separate detectors are provided for AM or CW and SSB. AGC voltage is continuously fed to four stages of RF and IF amplification to greatly minimize fading, and blasting. Automatic noise limiter on AM reception. For CW and SSB a double-ended manual noise limiter is provided. 16 tubes plus rectifier and regulator. Size, 11 $\frac{1}{4}$ "x19 $\frac{1}{2}$ "x17". Less speaker, see below. For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 72 lbs. **77 SZ 800. NET.....895.00**

NTS-2 MATCHING SPEAKER, 12 lbs.

**83 SX 897. NET.....21.95**

### NC-60B "SPECIAL" RECEIVER

A modern, compact communications receiver at low cost. An excellent choice for newcomers in Ham Radio or SWL's. Has greatly increased sensitivity and full electrical bandspread. Provides coverage from 540 kc to 31 mc. Has large slide-rule dial with marine aircraft, Amateur and foreign short-wave frequencies clearly marked. Has phone jack, built-in speaker. Selectivity: 5 kc at 6 db down. Controls: tuning, bandspread, off/on-volume, band selector. AM/CW switch, standby/receive switch. Antenna input: 50-300 ohms, 7 $\frac{1}{4}$ "x13 $\frac{1}{2}$ "x8 $\frac{3}{4}$ ". For 110-120 v., AC or DC. Shpg. wt., 15 lbs. **92 SX 385. NET.....59.95**

### HRO-60 RECEIVER

- High Sensitivity and Selectivity
- Ruggedly Built—Remarkably Stable



Covers 50 kc to 54 mc with suitable coils. Dual conversion above 7 mc. 2 RF stages, 4 IF stages, 12 IF circuits, and 6-step crystal filter. Selectivity from 80-3500 cps at 6 db points. With plug-in coils for general coverage from 1.7-30 mc and bandspread on 80-40-20-10 meters. 15 tubes, rectifier, regulators. 19 $\frac{1}{2}$ "x10 $\frac{1}{2}$ "x17". For 115/230 v., 50-60 cycle AC. Less speaker, 84 lbs. **97 SZ 722. NET.....745.00**

MATCHING 10" TABLE SPEAKER, 10 lbs.

**97 SX 663. NET.....19.95**

HRO-60-XCU-2. Crystal calibrator. Wt., 1 lb.

**97 SX 717. NET.....29.95**

HRO-60-AC. 15-m. bandspread coil. 2 $\frac{1}{2}$  lbs.

**97 SX 789. NET.....49.95**

HRO-60-E. 900-2050 kc coil. Wt., 2 $\frac{1}{2}$  lbs.

**98 S 048. NET.....49.95**

HRO-60-F. 480-960 kc coil. Wt., 2 $\frac{1}{2}$  lbs.

**98 S 049. NET.....49.95**

Ideal for Novices and  
Short-Wave Listeners



**KING-SIZE TRADE-INS  
24 MONTHS TO PAY**

### RECEIVER SYMBOLS

- Indicates Ham Bands Only
- General Coverage

Allied Offers Top Trade-Ins on Amateur Equipment



# SSB



## JOHNSON INVADER

### TOTALLY NEW CONCEPT IN TRANSMITTER DESIGN

MODEL 240-302-2. All new, the "Invader" offers bandswitched coverage of 80 through 10 meters with 200 watts CW input, 200 watts SSB, 90 watts AM. Highly simplified tuning—just tune for maximum meter reading—meter reads actual RF output. Outstanding features include: high-frequency bandpass crystal filter for 60 db suppression of unwanted sideband; carrier down 55 db; differentially-compensated VFO with "Keep-Warm" heater element; RF controlled ALC and audio AGC; wide range loading control; slide rule dial; TVI suppression; shaped keying; internal relay controls antenna; receiver, built-in VOX, push-to-talk and anti-trip. Two-tone gray steel cabinet, 11 $\frac{1}{2}$ x21x17 $\frac{1}{2}$ ". For 105-125 v., 50-60 cycle AC. Shpg. wt., 67 lbs.

77 SZ 973, *Factory Wired*, NET. **619.50**

MODEL 240-303-2 Hi-Power Conversion Unit. For use with above. Converts Invader to 2000-watt desk-top transmitter. With power supply, 11 $\frac{1}{2}$ x19 $\frac{1}{2}$ x14 $\frac{1}{2}$ ", 116 lbs.

77 SZ 985, *Factory Wired*, NET. **619.50**

MODEL 240-304-2 "INVADER-2000." Consists of both units above.

90 SZ 143, *Factory Wired*, NET **1229.00**

## NEW!



- Covers 160 Through 6
- 65-75 Watts on AM/CW
- Completely Bandswitched

## "RANGER II" AM-CW TRANSMITTER

MODEL 240-162-2. The latest model of this popular AM-CW transmitter provides bandswitched Ham band coverage, 160 to 6. Uses built-in VFO or crystals. Pi-Network final runs 75 watts input on CW, 65 watts AM. Time sequence (grid block) keying allows quick, clean break-in. VFO is temperature compensated for high stability.

Separate calibrated VFO bandspread scales for each band, 100% AM modulation, 250-3000 cps response, Full meter switching, TVI suppressed. Uses high-imp. mike. Less crystal, mike and key, 9 $\frac{5}{8}$ x15 $\frac{1}{2}$ x14". For 110-120 v., 50-60 cycle AC. Shpg. wt., 54 lbs.

90 SZ 124, *Factory Wired*, NET **359.50**

MODEL 240-162-1. As above, in kit form, 90 SZ 125, NET. **249.50**



SIX-BAND TRANSMITTER NO MONEY DOWN



600 watts on CW

## JOHNSON VIKING Transmitters..

### "VALIANT" AM-CW TRANSMITTER

MODEL 240-104-2. A flexible, compact, all band transmitter. Provides 200 watts input on AM phone, 275 watts on CW. Band-switching coverage from 160 through 10 meters. Can be used with auxiliary SSB exciter for 275 watts SSB power.

Some of the "Valiant's" deluxe features include: a temperature-compensated extra-stable VFO, highly effective TVI suppression, time sequence (grid block) keying, high-gain push-to-talk audio system for use with high impedance crystal or dynamic microphones, self-contained power supplies, and single control mode switching. Low level audio clipping and built-in low pass audio filter provide a maximum "punch" through the QRM. The final amplifier operates into a very efficient pi-network tank circuit with silver-plated inductor.

Designed to match 50-600 ohm loads; will tune out large amounts of reactance. VFO and modulator screens are voltage regulated for increased stability. Uses three 6146 tubes in the final amplifier stage.

In sturdy, maroon and gray steel cabinet. Size, 11 $\frac{1}{2}$ x21x16 $\frac{1}{2}$ ". Less crystal, key and mike. For operation from 105-125 volts, 50-60 cycle AC. Shpg. wt., 85 lbs.

94 SZ 853, *Factory Wired*, NET. **439.50**

MODEL 240-104-1. As above, but in kit form.

83 SZ 845, NET. **349.50**

### "500" SSB-AM-CW TRANSMITTER

MODEL 240-500-2. A flexible all-band transmitter for 80-10 meters. Perfect for SSB—provides 500 watts P.E.P. with 3-watt auxiliary SSB exciter. Input power is 500 watts AM; 600 watts CW. Housed in two cabinets. RF unit is in a cabinet small enough to be placed on your operating desk beside your receiver—all controls are conveniently located on this unit. The compact power supply/modulator unit may be placed in any convenient location.

All exciter stages are ganged-tuned to the stable VFO—transmitter also has provision for crystal control. Has voltage failure protection and time delay. Pi-L output circuit with silver-plated final tank coil provides excellent harmonic suppression; loads virtually any antenna system. Two meters permit convenient monitoring of all transmitter functions.

Audio system includes phone patch and low-level clipping. Completely TVI suppressed. Time-sequence keying for fast CW break-in. Efficient cooling fan.

Size of RF unit, 11 $\frac{1}{2}$ x21x14 $\frac{1}{2}$ ". Size of power supply/modulator unit, 10 $\frac{7}{8}$ x20 $\frac{3}{4}$ x15 $\frac{3}{4}$ ". For operation from 115 or 230 v., 50-60 cycle AC. Shpg. wt., 200 lbs.

94 SZ 854-2, *Wired*, NET. **949.50**

MODEL 240-500-1. As above, but in kit form.

83 SZ 846-2, NET. **749.50**



NO MONEY DOWN

### "THUNDERBOLT" LINEAR AMPLIFIER

MODEL 240-353-2. Compact, bandswitching linear amplifier—provides 2000 watts P.E.P. on SSB to smash through the QRM. Gives maximum "talk power" on all Amateur bands from 3.5 to 30 mc. Has a full kw input on CW, 800 watts on AM linear. Completely self-contained—a highly efficient, flexible, table-top unit. Drive requirements are 10 watts in class AB2 linear and 20 watts CW. Use with any low-power transmitter.

Output circuit employs two 4-400A tetrodes in parallel, bridge neutralized. Pi-network matches 40 to 600-ohm loads. Two fans extend tube life. Meters provide a constant check of every important phase of operation. Four VR tubes for screen voltage regulation. In sturdy maroon and gray steel cabinet. Size, 11 $\frac{1}{2}$ x21x14 $\frac{1}{2}$ ". For 115 or 230 v., 50-60 cycle AC. Shpg. wt., 140 lbs.

94 SZ 863-3, *Wired*, NET. **589.50**

MODEL 240-353-1. As above, but in kit form.

83 SZ 894-2, NET. **524.50**



NO MONEY DOWN

### "6N2" VHF TRANSMITTER

MODEL 240-201-2. Compact VHF transmitter offering bandswitching coverage of 6 and 2 meters. Makes use of the existing power supply and modulator of your low-frequency transmitter. Requires 6.3 v. at 3.5 amps, 300 v. DC at 70 ma and 300-750 v. DC at 200 ma, plus 30 or more watts of audio. Input power: 150 watts CW, 100 watts AM. Has silver-plated tank circuit, parallel lines for 2 meters, link output, 5894 final, TVI suppressed. For 8-mc. input. May be operated by crystal control or external VFO. Size, 8 $\frac{3}{8}$ x13 $\frac{1}{2}$ x8 $\frac{1}{2}$ ". Less crystal, key, mike, Shpg. wt., 14 lbs.

94 SU 851, *Factory Wired*, NET. **169.50**

MODEL 240-201-1. As above, but in kit form.

83 SZ 844, NET. **129.50**

KING-SIZED  
TRADE-INS

EASY PAY TERMS



**Viking**

**VFO**  
KITS OR WIRED

**50-WATT  
PHONE-CW  
COMBINATION**

**NO MONEY DOWN**

## More Communication Power

**HIGHLY-STABLE VFO'S**

**240-133-1 "6N2" VFO KIT.** Replace 8 crystals. Has 6BH6 osc. OA2 VR input range: 7.995—9.010 mc. 10:1 ratio. Requires 250-300 v. DC at 15 ma. at 0.3 amp. With instructions.

Shpg. wt., 3 lbs.

**99. NET. 34.95**

**240-133-2.** As above, but factory-

tested.

**69. NET. 54.95**

**240-122-2.** Stable VFO for Viking 1's as well as other popular transmitters. meters, output on 160 and 40 meters mc. Requires 250-300 v. DC at 15 ma. at 0.3 amp. With cables. 7x6 $\frac{1}{4}$  x 10 $\frac{1}{2}$  in. 7 lbs.

**014. NET. 69.75**

**"ADVENTURER" TRANSMITTER KIT**

**MODEL 240-181-1.** Low-cost CW transmitter. 50 watts input to 807 final amplifier. Features: bandswitching 80 through 100 meters; grid and plate metering; TVI shielding and filtering. Wide range pi-network output permits use of simplest antennas with excellent efficiency. Oscillator and final are keyed simultaneously for a crisp, clean signal. Less key and crystal. 7x6 $\frac{1}{4}$  x 8 $\frac{1}{4}$  in. For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 16 lbs.

**99 S 024. NET. 54.95**

**MODEL 250-40. AMPLIFIER-MODULATOR.** Provides phone operation for "Adventurer" and other similar CW transmitters. Screen modulation. Plugs in. 4 $\frac{1}{4}$  x 4 $\frac{1}{4}$  x 4 $\frac{1}{4}$  in. Less mike. Shpg. wt., 1 lb.

**92 S 363. NET. 12.25**

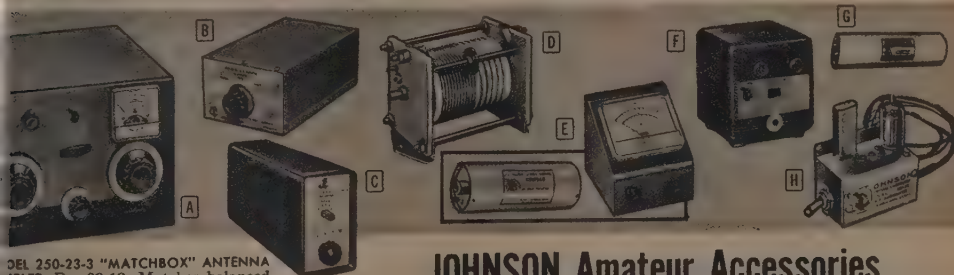
**"CHALLENGER" TRANSMITTER KIT**

**MODEL 240-182-1.** Ideal for fixed or portable use, the "Challenger" features 70 watts phone input on 80-6 meters; 120 watts CW input on 80-10 meters—85 watts CW output on 6 meters. Pi-network output for 40-600 ohm antennas. tunes out large amounts of reactance. Plate circuit capacitor switching provides best combination of variable and padding capacity for easy tuning and proper loading. Front panel socket for plugging in crystal or VFO. Less mike, key and crystal. Size, 15 $\frac{1}{2}$  x 13 $\frac{1}{2}$  x 12 $\frac{1}{2}$  in. For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 31 lbs.

**77 S 772. NET. 114.75**

**MODEL 240-182-2.** As above but factory-wired and tested.

**77 S 757. NET. 154.75**



**MODEL 250-23-3 "MATCHBOX" ANTENNA ADAPTER.** For 80-10. Matches balanced as from 25 to 1500 ohms to unbalanced or single-wire antennas from 25 to 150 ohms. Features built-in directional indicator. Continuously monitors incident or reflected (SWR) transline power. Permits quick tuning for maximum input to antenna. Coax input. 100 ohm; rated 275 watts. Transmitter relay. 7x9 $\frac{1}{2}$  x 10 $\frac{1}{2}$  in. 13 lbs.

**770. NET. 86.50**

**250-30-3.** Similar, but for outputs to Takes balanced antennas from 50 ohms, unbalanced from 50-2000 ohms. 7 $\frac{1}{2}$  x 12 $\frac{1}{2}$  in. Wt., 28 lbs.

**771. NET. 149.50**

**250-23.** Same as 250-23-3, but less small coupler and indicator. 7x9 $\frac{1}{2}$  x 10 $\frac{1}{2}$  in. Shpg. wt., 11 lbs.

**026. NET. 54.95**

**250-30.** Same as Model 250-30-3, but with indicator. 27 lbs.

**016. NET. 124.50**

**MODEL 250-42-1 ATTENUATOR.** 6 db T. Max. dissipation, 45 watts (120 with tube); input, 60 watts. 350-ohm sockets. 3 $\frac{1}{2}$  x 4 $\frac{1}{2}$  x 2 $\frac{1}{2}$  in. 2 lbs.

**002. NET. 21.50**

**250-42-3.** Similar, but handles 70 watts. 50-ohm imp. 2 lbs.

**003. NET. 21.50**

**POWER REDUCER.** (Not illus.) For Viking linears with medium-power transmitters. 3 $\frac{1}{2}$  x 2 $\frac{1}{2}$  in. dia. 1 lb.

**015. NET. 13.95**

**C VIKING 6N2 CONVERTERS.** Permit excellent 6 and 2 meter reception with any communications receiver. Provide instant, front-panel bandswitching from normal receiver operation to either 6 or 2 meter operation. Crystal-controlled broadband type—simply tune receiver to cover band. \*Cover 50-52 and 144-146 mc; others provide full-band coverage. Uses 6ES8 dual-triode RF amplifier in a neutralized cascode circuit, for maximum sensitivity and low noise. Manual RF gain control plus mixer grid-leak self-regulating action, prevents overloading. Double-tuned interstage circuits provide maximum image and IF rejection. Compact size, 5x2 $\frac{1}{2}$  x 1 $\frac{1}{2}$  in. For 110-120 v., 50-60 cycle AC. Shpg. wt., 5 lbs.

**MODELS IN KIT FORM**

| Stock No. | Model No. | For Receivers Covering: | NET EACH |
|-----------|-----------|-------------------------|----------|
| 77 S 765  | 250-43-1  | 26 to 30 Mc.            | 59.95    |
| 77 S 766  | 250-43-2  | 28 to 30 Mc.            |          |
| 77 S 767  | 250-43-3  | 14 to 18 Mc.            |          |

**FACTORY-WIRED MODELS**

|          |           |              |       |
|----------|-----------|--------------|-------|
| 77 S 717 | 250-43-12 | 26 to 30 Mc. | 89.95 |
| 77 S 718 | 250-43-22 | 28 to 30 Mc. |       |
| 77 S 719 | 250-43-32 | 14 to 18 Mc. |       |

**D ROTARY INDUCTORS.** For multi-band tank circuits. 1 $\frac{1}{2}$  lbs.

| Stock No. | Type    | Size                                                    | Max. jux. | NET EACH |
|-----------|---------|---------------------------------------------------------|-----------|----------|
| 60 M 372  | 229-201 | 4 $\frac{1}{2}$ x 2 $\frac{1}{2}$ x 2 $\frac{1}{2}$ in. | 10        | 9.50     |
| 60 M 373  | 229-202 | 5 $\frac{1}{2}$ x 2 $\frac{1}{2}$ x 2 $\frac{1}{2}$ in. | 18        | 10.50    |
| 60 M 374  | 229-203 | 7 $\frac{1}{2}$ x 2 $\frac{1}{2}$ x 2 $\frac{1}{2}$ in. | 28        | 11.50    |

**E MODEL 250-37 DIRECTIONAL COUPLER.** Monitors SWR and relative power in 50-ohm lines. Rated 1 kw. 1.7-150 mc. Use with multimeter, or indicator below. Size, 2 $\frac{3}{4}$  x 6 $\frac{1}{4}$  in. Shpg. wt., 2 lbs.

**92 S 380. NET. 11.75**

**250-38 INDICATOR.** 4 $\frac{1}{2}$  x 4 $\frac{1}{4}$  in. 4 lbs.

**92 S 379. NET. 25.00**

**F MODEL 250-25 SIGNAL SENTRY.** For monitoring phone or CW on all bands. Requires no tuning. Also useful as code practice oscillator. Plug provided fits phone jack of receiver; headphones plug into Signal Sentry. RF probe coupled loosely to transmitter provides signal. Mutes receiver; ideal for break-in CW. Requires 250 v. DC at 5 ma., 6.3 v. at 0.6 amp. 3 $\frac{1}{2}$  x 3 $\frac{1}{2}$  x 3 $\frac{1}{2}$  in. With cables, connectors, 3 lbs.

**99 S 017. NET. 22.00**

**G MODEL 250-20 LOW-PASS FILTER.** TVI filter; 4 shielded sections. Handles 1 kw. 100% modulated. 75-db attenuation of harmonic and spurious frequencies above 54 mc—insertion loss less than  $\frac{1}{2}$  db. 52-ohm coax connectors. 9x2 $\frac{3}{4}$  x 3 $\frac{1}{2}$  in. 3 lbs.

**98 S 055. NET. 14.95**

**H MODEL 250-28 CRYSTAL CALIBRATOR.** 100-ke crystal standard. Produces 100-ke check points up to 55 mc. With tube, crystal, cable and extension leads. 3 $\frac{1}{2}$  x 2 $\frac{1}{2}$  x 1 $\frac{1}{2}$  in. Requires 6.3 v., @ .15 amp and 150-300 v. DC. @ 2 ma. Wt., 1 lb.

**99 S 039. NET. 17.95**



## NO MONEY DOWN

**NEW!**

**Table-Top Kilowatt  
80 Through 10 Meters**

### MODEL GSB-201 LINEAR AMPLIFIER

New from Gonset. A complete, all-in-one kilowatt linear amplifier featuring true table-top dimensions—only 8½" high, 12½" wide, and 17" deep! Uses Type 811A tubes in stable, grounded-grid circuit to provide full 1500 watts PEP SSB, 1000 watts CW, and 400 watts AM. Fully bandswitched—80 through 10 meters, can be driven by any exciter providing 65-150 watts CW. Efficient, long-life silicon rectifiers in high voltage power supply. Has built-in antenna changeover relay. Panel switch allows tune-up at reduced power; meter switches to indicate amplifier plate current or relative RF output. In modern attractively finished cabinet. For 110-125 v., 50-60 cycle AC. Wt., 92 lbs.

77 SZ 990. NET.....399.50

## GONSET...Pace-Setting Design in Ham Gear

### □□ G-43 RECEIVER

General-coverage receiver using printed circuitry and featuring remarkable stability. Covers 1.8-5.7 mcs, 5.7-13 mcs, 13-20 mcs, 20-25 mcs, 25-30 mcs, plus the standard broadcast band. Drum-type bandspread dial calibrated for Ham bands; also logging scale. Extra calibrations on 25-30 mc range for use with 2 and 6-meter converters.

Six hi-Q IF transformers for excellent selectivity—6 kc at 6 db down, 24 kc at 60 db down. Controls: Main Tuning, Bandspread, Bandswitch, Volume, Sensitivity, Antenna Trimmer, ANL On-Off, Crystal Calibrator, Phone-CW, Standby-Receive.

Has 7 tubes and rectifier. With built-in, 4" speaker and jack for external speaker or headphones. 16½x8x10½". For 110-120 v., 50-60 cycle AC. Shpg. wt., 27 lbs.

90 SU 159. NET.....99.50

### □□ G-33 RECEIVER

A popular general coverage receiver provides excellent reception of short-wave as well as standard broadcast stations. Printed circuitry for improved stability and performance. Four separate tuning ranges cover 1.8-6 mc, 6-13 mc, 13-34 mc, and broadcast band. Has large, easy-to-read slide-rule dial. Bandspread dial calibrated for the Amateur bands.

1650 kc IF and 3 hi-Q transformers add excellent image rejection. Controls include Main Tuning, Bandspread Tuning, Bandswitch, Volume, Antenna Trimmer, Sensitivity, and On-Off Standby switch.

5 tubes plus rectifier. Built-in 4" speaker jack permits use of external speaker or headphones. 16½x8x10". For 110-120 v., 50-60 cycle AC. Shpg. wt., 23 lbs.

90 SU 158. NET.....69.50

## EASY PAY TERMS...KING-SIZE TRADE-INS!

### G-76

### G-76 TRANSCEIVER

MODEL 3338. Advanced design AM-CW mobile transceiver. Provides bandswitching coverage of the 80 through 6-meter Ham bands. Operates at 100 watts input on AM; 120 watts input on CW. Has stable, built-in VFO; 6DQ5 final; push-to-talk controls. Dual-conversion receiver has temperature-compensated oscillator. Includes BRO, ANL, and S-meter. 5x12½x10½". Requires Model 3350 or Model 3349 power supply, listed below. Shpg. wt., 22 lbs.

78 SU 176. NET.....399.50

78 SU 176. 3350 12 V. DC Mobile Power Supply. With cable. Size 7½x8½x3½". Shpg. wt., 10 lbs. NET.....145.00

78 SU 177. 3349 117 V. Power Supply. Has built-in speaker. Size, 12½x5½x13". Shpg. wt., 32 lbs. NET.....145.00

### COMMUNICATOR IV

MODEL 3341. Provides outstanding AM performance on the 2-meter band. For mobile, portable, or fixed-station use. Only 5x9x13"! Operates from 110-120 v., 50-60 cycle AC or 12 v. DC. Incorporates efficient transistor DC power supply.

Receiver features: 0.4 uv. sensitivity; noise figure; triple conversion; crystal-controlled first IF; ANL; squelch. Transmitter features: 20 watts input to 6660 ft. speech clipping; provision for 2 crystal tuning meter. Has built-in speaker. AC or DC cables. In attractive gun-metal gray cabinet; has convenient carrying handle. Shpg. wt., 29 lbs.

78 SU 152. NET.....369.50

MODEL 3342. Similar to above, but for 2-meter band. Less mike. 29 lbs.

77 SU 999. NET.....349.50

## HIGH-STABILITY CONVERTERS FOR MOBILE USE



Easily Connected  
to AM Car Radio—  
Mount Under Dash



Enjoy Short  
Wave Reception  
in Your Boat



### "SUPER-12" MOBILE CONVERTER

MODEL 3261. Compact, sensitive converter covering 75, 40, 20, 15 and 10 meters, plus the 19 and 49-meter bands. Easy to install—requires no high-voltage B+ or internal connections to auto radio. Operates directly from 12v. DC (@ 1.2 amps). Features low drift, excellent s/n ratio and high image rejection. Has low-noise RF stage with antenna trimmer, low-noise triode mixer and modified Clapp oscillator. Hi-low impedance antenna switch for 10 and 75 meters. Output, 1430 kc. With cables. 5½x3½x5¼". Shpg. wt., 5 lbs.

83 S 594. NET.....74.50

### 6-METER CONVERTER

MODEL 3275. Provides excellent 6-meter reception when operated with auto radio. Has sensitive RF stage and built-in noise limiter. Triple conversion (including mixer in auto radio) gives maximum image rejection. Auto receiver is set on 1500 kc and converter is tuned for band coverage. 49 to 54 mc range permits checking commercial stations for spotting "DX" band openings. Planetary drive provides easy tuning. Operates from 12 v., negative ground car system—requires no high-voltage supply. Size, 5½x3½x5¼". Shpg. wt., 5 lbs.

77 S 768. NET.....74.50

### MOBILE MARINE CONVERTER

MODEL 3163. Allows you to monitor the 3.0 mc range. Perfect for listening ship-to-ship, ship-to-shore, and marine weather broadcasts. Requires only 12 v. DC. Simple to install—connect output cable to auto radio, connect antenna to converter input and power lead to ignition terminal. With cables. 3½x4½x4½". 5 lbs.

77 S 688. NET.....29.50

MODEL 3001 NOISE CLIPPER. Connect to 2-detector circuit of auto radio. Size, 2x1½". Shpg. wt., 2 lbs.

60 S 596. NET.....11.95





## COMPLETE SSB-AM-CW STATION

Operates on 10, 15, 20,  
40, and 80 meter bands

Highly versatile pair—  
provides full facilities  
for all-mode operation.

**NO MONEY DOWN**



### MODEL HX-500 SSB-AM-CW TRANSMITTER

example of excellent transmitter design, the HX-500 example facilities for all modes of operation. It provides 3B, AM, FM, CW, FSK for RTTY and 40 cps identification nifi. Output is 100 watts on SSB (PEP), and CW, 25 watts VFO covers 80, 40, 20, 15, and 10-meter bands in 8 ranges. Modulation is done at 60 kc for superior stability—100 cps r. Important features include: carrier suppression of 50 dbr; spurious frequencies down 50 db; unwanted sideband sion, 50 db; built-in antenna changeover relay; separate dial or each band. Automatic audio level control eliminates over and frequency splatter. TVI proofed. Final consists of two n parallel; 50-ohm pi-network. 16 tubes, 4 rectifiers, VR. heterodyning crystals, less mike and key. 11½"x19¼"x16⅞". 125 v., 50-60 cycle AC. Shpg. wt., 100 lbs.

366. No Money Down. NET..... 695.00

### MODEL HQ-180C TRIPLE-CONVERSION RECEIVER

An outstanding general-coverage, triple-conversion receiver fea turning up-to-the-minute circuit design. The HQ-180C has every refinement for exceptional SSB, CW and AM performance. Covers 540 kc to 30 mc in 6 ranges. Bandspeed calibrated for 80, 40, 20, 15 and 10 meters. Deluxe features include: crystal filter at 3035 kc for improved selectivity; crystal controlled 1st converter; 7 selectivity positions; BFO control of ±2 kc; slot filter; selectable AVC action; dial scale reset; 100-kc crystal calibrator; automatic noise limiter; and clock timer. Has linear product detector for CW and SSB; diode AM detection. "Auto-Response" circuit automatically varies audio passband to fit receiving conditions. 16 tubes, VR, rectifier. 10½"x19"x13". For 110-120 v., 60 cycle AC. 45 lbs.

77 SU 895. No Money Down. NET..... 439.00  
77 SU 894. HQ-180. As above, less clock. NET..... 429.00



**NO MONEY DOWN**



**NO MONEY DOWN**



**NO MONEY DOWN**

### MODEL HQ-170C RECEIVER

conversion, Ham-band receiver cov- 160 meters. Features razor-sharp, separate linear product detector; SSB vernier tuning; 3 AVC delay Also has automatic audio passband sideband selector, 100-kc calibrator, set, "S" meter, clock-timer. Notch adjustable ±5-kc for over 40 db ation, depth control offers up to 20 db notch 1.5 kc wide at 6 db. IF's at 55, and 60 kc from 6-40 meters. dual on 80 and 160 meters. 15 tubes, VR, FCDA No. R-16. 10½"x19½" speaker, below. For 110-120 v., cycle AC. Wt., 45 lbs.

347. NET..... 369.00  
As above, less clock-timer. 477. NET..... 359.00  
599. S-200. Matching speaker. 11x Shpg. wt., 9½ lbs. NET..... 19.95

### MODEL HQ-145XC RECEIVER

Ideal for Amateurs desiring general coverage, or for short-wave listeners who insist on commercial-quality performance. This 11-tube superhet features an improved noise limiter and covers 540 kc to 30 mc in 6 bands. Has dual conversion from 10-30 mc; crystal filter with 6-position switch; electrical band-spread on 80-10 meter Ham bands; 10:1 signal-to-noise ratio with 1.75 µV AM signal or 0.5 µV CW signal. Slot filter provides up to 60 db attenuation, adjustable ±5-kc from 455 kc IF. Automatic audio passband control. Has Telechron clock-timer; regulated power supply. 10½"x19"x13". Less speaker (see S-200 at left). For 105-125 v., 50-60 cycle AC. 42 lbs.

77 SU 775. NET..... 279.00  
77 SU 776. HQ-145X. As above, but less clock-timer. NET..... 269.00

### MODEL HQ-110C RECEIVER

A handsome, dual-conversion receiver designed specifically for the Ham. Provides superb reception on SSB, CW and AM—full dial coverage of 160, 80, 40, 20, 15, 10 and 6 meters. Has calibrated electrical band-spread tuning, "Q" multiplier, 100-kc crystal calibrator, separate linear detector for SSB and CW, dial scale reset, clock-timer. Separate BFO is stabilized for SSB and CW reception. Dual conversion from 6-40 meters. Sensitivity: 1.5 µV for 10 db signal-to-noise ratio. 10 tubes, rectifier, VR, FCDA No. R-16. 9 7/16"x9 1/4"x1 1/4". Less speaker, below. For 110-120 v., 50-60 cycle AC. Shpg. wt., 31 lbs.

94 SU 822. NET..... 259.00  
94 SU 821. HQ-110. Above, less clock-timer. NET..... 249.00  
94 SX 828. S-100 Matching 6x9" Speaker. Shpg. wt., 10 lbs. NET..... 14.95

### POPULAR MODEL HQ-100AC RECEIVER

improved version of the highly popular 100C receiver offering Hammarlund at a moderate cost. Covers 540 kc to 160 meters. Includes: "Auto-Response" circuit for automatic audio bandwidth automatically adjusting conditions; "Q" multiplier for selectivity variable from 100 cps to 3 kc; sensitivity—less than 2 µV for 10 db signal-to-noise ratio; voltage regulated, temperature-compensated high-frequency oscillator for extra stability; calibrated band-spread for 80-10 meters; clock-timer; accurate "S" meter. Tube lineup: 6BZ6 amplifier, 6BE6 mixer, 6C4 HF oscillator—6BA6 IF's, 6AL5 detector/automatic noise limiter, 12AX7 audio amplifier/

Q multiplier/BFO, 6AO5 output; 5Y3 rect., OB2 VR. Attractive die-cast aluminum front panel. Entire cabinet is perforated for excellent ventilation. FCDA No. R-16. Size 9 7/16"x16 1/4"x9 1/4". Less speaker (above). For operation from 105-125 v., 50-60 cycle AC. Shpg. wt., 31 lbs.

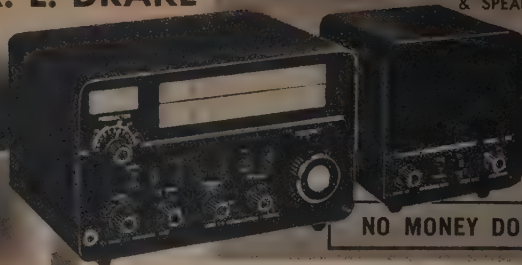
94 SU 829. NET..... 199.00  
HQ-100A. As above, but less clock-timer. 94 SU 827. NET..... 189.00

HAMMARLUND XC-455 CRYSTAL-CONTROLLED BFO. For above. Provides superb single-signal CW reception. Shpg. wt., 1 lb. 94 S 824. NET..... 15.95



HQ-100AC

Items with U or Z in Stock Number Shipped Truck or Express



**NO MONEY DOWN**

### NEW DRAKE 2-B PRECISION RECEIVER

A new version of the famed Drake 2-A, this communications receiver has the features of its predecessor plus many more—including highly selective passband tuner with 3 switchable bandwidths, speeded-up AVC for CW work and series-diode noise limiter for AM signals. Steep-sided bandwidths of 0.5, 2.1 and 3.6 kc at 6 db down offer peak SSB, AM and CW reception with full RF gain and accurate S-meter readings. Covers 3.5-4.1, 6.9-7.5, 13.9-14.5, 20.9-21.5 and 28.5-29.1 mc bands with crystals supplied. Has crystal-controlled first converter, 60 db of image rejection, and sensitivity of  $\frac{1}{2}$   $\mu$ v for 10 db signal to noise. Continuous sideband selection without retuning. Choice of slow or fast AVC and product or diode detector. 7x12x9". With tubes. Less speaker. Crystals for 28.0-28.6, 29.1-29.7 and non-Ham ranges available on special order. For 120 v., 60 cycle AC. Shpg. wt., 15 lbs.

77 SZ 898. No Money Down. NET. . . . . 279.95

77 S 372. Model 2-AQ Combination Matching Speaker and Q-Multiplier. For 2-B receiver, above. Shpg. wt., 5 lbs. NET. . . . . 34.95

77 S 373. Model 2-AC 100-kc Crystal Calibrator. For 2-B receiver, above. Shpg. wt., 5 oz. NET. . . . . 16.95

77 SX 899. Model 2-AS Matching Speaker. 4 lbs. NET. . . . . 12.95

## knight-kit® MODEL R-100



Really Pulls In the Rare DX!

**NO MONEY DOWN**

### R-100 COMMUNICATIONS RECEIVER KIT

- ONLY \$99.95
- $1\frac{1}{2}$ - $\mu$ v Sensitivity, 10 Through 80 Meters
  - Variable Selectivity, 300 cps to  $4\frac{1}{2}$  kc
  - Q Multiplier; Exalted BFO for SSB

You'll marvel at the many exciting features of this professional-type receiver kit! The product of years of experience in Ham-gear engineering, the R-100 brings you performance comparable to factory-assembled units costing far more. Its overall sensitivity ranks with the best—better than  $1\frac{1}{2}$   $\mu$ v for a 10:1 S/N ratio, even on 10 meters. The built-in Q multiplier peaks desired signals or nulls out interference; 60-db notch really slices through QRM. VR-tube regulated oscillator plus printed-circuit design provide excellent stability and virtually drift-free operation. Covers 540 kc to 30 mc in 4 ranges, with calibrated electrical bandspread on Ham bands 10 through 80 meters—tunes the 160-meter Ham band too. Also includes delayed AVC, exalted BFO injection, noise limiter, and provision for building in accessory crystal calibrator and S-meter. With case, tubes, all parts, wire, solder and step-by-step assembly instructions. Less speaker. (See this catalog's Knight-Kit section for further details). Shpg. wt., 31 lbs.

83 YU 726. No Money Down. ONLY. . . . . 99.95

83 Y 728. S-8 Matching Speaker Kit. Wt.,  $3\frac{1}{2}$  lbs. ONLY. . . . . 9.95



Be sure to check the Knight-Kit section of this catalog for valuable gear you'll want to have in the Shack! You save by building Knight-Kits, and you own the very best!

### TMC MODEL GPR-90 RECEIVER

A top-quality receiver covering 540 kc to 31 mc in six accurately calibrated bands. Full electrical bandspread for the 10-through-meter Ham bands. Dual conversion above 5.4 mc. Selectivity variable in six steps from 200 cps to 5 kc, 5 crystal and 1 non-crystal. Above 1500 kc, sensitivity is better than  $1\frac{1}{2}$   $\mu$ v at 10 db SNR for CW, MCW, PS and SSB signals. Built-in crystal calibrator provides 100-kc markers throughout tuning range. AVC output stays within 12 db when input signal is changing 80 db.

Also features: highly stable HFO and BFO, broad-band "ferret" input transformer, grounded-grid RF input stage, variable-bandwidth audio filter, calibrated S-meter, and noise limiter. Rear panel has SSB coaxial IF output and audio input, and utility power socket for 6.3 v. at 600 ma. and 250 v. at 10 ma. 75 ohms unbalanced or 300 ohms balanced antenna input. Size, 10x20x15". With tubes, plus rectifier and VR. Less speaker. For 105-125 v., 60 cycle AC. Shpg. wt., 63 lbs.

94 SZ 895. No Money Down. NET. . . . . 765.00

83 SX 891. Matching Speaker. For above. Wt., 11 lbs. NET 17.95

## RME DIVISION OF ELECTRO-VOICE

A deluxe Amateur-band receiver that has been widely acclaimed by active Hams everywhere



6900 RECEIVER



VHF-1 CONVERTER



DB-23 PRESELECTOR

**RME 6900 RECEIVER.** A superb triple-conversion communication receiver offering optimum performance on SSB, AM or CW. Covers 80, 40, 20, 15 and 10 meter bands and 10-11 mc (for WWV). Features ingenious "Modemaster" selector switch for one-knob control of five functions; 10" single slide-rule tuning; tunable T-notch filter; separate SSB detector and selectable channel ( $\pm 3$  kc); 500- $\mu$  2-kc and 3.5-kc selectivity plus "T" heterodyne-rejection filter; hermetically sealed 100-kc crystal calibrator; adjustable-threshold noise limiter; fast-attack AVC circuit; S-meter; etc. With 12 tubes plus silicon rectifiers. 10x17x11". Less speaker. For 110-120 v., 50-60 cycle AC. 36 $\frac{1}{2}$  lbs.

77 SX 897. No Money Down. NET. . . . . 369.00

77 SX 374. 6901 Speaker. For above. Wt., 6 lbs. NET. . . . . 19.95

**DB-23 PRESELECTOR.** A high-performance broadband preselector that boost the gain and signal-to-noise ratio of Amateur receivers by 80 through 100 meters. Minimum gain of 20 db; improves SNR by 10 db. Requires no tuning. 3-6j6's plus rectifier. 5x7 $\frac{1}{2}$ x6". For 120 v., 50-60 cycle AC. Shpg. wt., 6 $\frac{1}{2}$  lbs.

98 S 751. No Money Down. NET. . . . . 49.95

**VHF-12 CONVERTER.** A famous tunable VHF converter for extending coverage of any communications receiver to the 6, 2 and meter Ham bands. Ranges: 48.4-54.2, 143.4-149.2 and 219.4-224.2 mc. Sensitivity  $\frac{1}{2}$   $\mu$ v with very low noise figure. 2 and 1- $\mu$  circuits have crystal-controlled oscillator and tunable IF. 9 $\mu$  plus rectifier and VR. Size, 10x16 $\frac{1}{2}$ x10". For operation from 120 v., 50-60 cycle AC. Shpg. wt., 36 lbs.

83 SU 598. No Money Down. NET. . . . . 239.00





MODEL 720-K

AM PHONE

WITH OPTIONAL  
MODEL 730-K  
MODULATOR



NEW MODEL 723-K 5-BAND  
60-WATT CW TRANSMITTER KIT

## Famous-Name Manufacturers

### POPULAR EICO MODEL 720-K TRANSMITTER KIT

720-K. This handsomely styled 90-watt transmitter kit is just the rig for seasoned veteran and novice alike! Covers 75, 40, 20, 15 and 10 meters with silent one-knob bandswitching. Sealed and careful bypassing and filtering leads provide highly effective TVI suppression. Makes a fine 65-watt plate-tuned AM phone rig when used with 730-K accessory modulator kit. Employs crystal-controlled 6CL6 or 6AQ5 buffer multiplier and 6146 amplifier which is protected by a 6AQ5 rectifier tube. Oscillator keying permits fast work. Pi-network output matches antennas from 50 to 1000 ohms. Metered grid and plate current. Size, 6x8x10. With all parts, tubes and instructions.

tions. Power supply for 110-120 v., 60 cycle AC. Shpg. wt., 27 lbs.

83 SU 056. No Money Down. NET 79.95

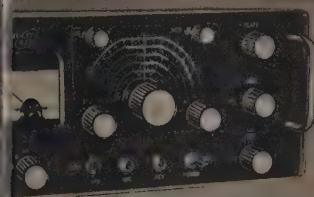
77 SU 706. Model 720. Wired. NET 119.95

MODEL 730-K MODULATOR-DRIVER KIT. (Not illus.) High-level universal type, for transmitter above. Delivers 50 watts of undistorted audio. Multi-impedance output. Inputs for crystal or dynamic microphone and phone patch, 6x14x8". With parts, tubes, Less cover (below). For 110-120 v., 60 cycle AC. Shpg. wt., 21 lbs.

83 SU 057. No Money Down. NET 49.95

77 SU 707. Model 730. Wired. NET 79.95

77 S 708. Cover. For 730 or 730-K, above. Shpg. wt., 5 lbs. NET 4.50



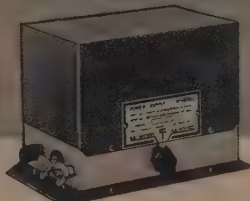
CW or AM Phone  
on 6 Ham Bands

### AF-68 "TRANS-CITER"

Used as an exciter, speech amplifier, driver, or a complete low-powered transmitter, the AF-68 is ideal for both dash mobile and home-station use. Control bandswitches all stages on the tough 6-meter bands. Runs 60 watts on AM and CW. Has temperature-compensated VFO, 5-circuit meter, 6146 amplifier and pi-network output. Size, 3 1/2 x 7 1/2. Less power supply (right), 20 lbs.

902. No Money Down. NET 205.00

## MULTI-ELMAC



### M-1070 POWER SUPPLY

Rugged unit will easily power both AF-68 Trans-Citer (left) and PMR-8 receiver (below). 6x8x5". For 6 or 12 v. DC or 110-120 v., 60 cycle AC. Shpg. wt., 15 lbs.

77 S 806. No Money Down. NET 69.50

M-1071 KIT. As above, in kit form.

77 S 807. No Money Down. NET 49.50

### PMR-8 MOBILE & FIXED-STATION RECEIVER

Perfect companion unit for the AF-68 Trans-Citer above, this double-conversion receiver offers outstanding performance at home or away! Covers 80, 40, 20, 15 and 10-meter Amateur bands as standard broadcast. First IF is 2238 and IF 262 kc; has crystal-controlled converter for maximum stability. IF sensitivity is 6 db down at 3 kc and 60 db down at 12 kc. Sensitivity is 1/2 µv for 10 db and 500 mw output.

compact PMR-8 also features: calibrated with upper and lower sideband select, automatic noise limiter, headphone illuminated slide-rule dial, delayed 50-72 ohm antenna input, etc. 4 1/2 x 6 x 10. Tubes filament operate on 6 or 12 volts. Less M-1070 or M-1071 power supply (above, right) and speaker, 8 lbs.

161. No Money Down. NET 189.50



- CW, SSB, AM—Mobile & Fixed
- Tunes-6 Ham Bands Plus BC Band
- 1/2 Microvolt for 10 db Quieting

A superb low-cost Eico unit for the Ham beginner or the advanced operator who requires a low-power stand-by rig. Covers the 80, 40, 20, 15 and 10-meter bands, running 60 watts input to a rugged 6DQ6B neutralized final amplifier. Completely bandswitched, it employs time-proven circuitry and up-to-the-minute design throughout. The 6CL6 oscillator is an electron-coupled Colpitts type noted for low crystal heating and minimized effect of plate loading on frequency. Panel meter can be switched into either grid or plate circuit of final.

Full-wave choke-input power supply employs efficient GZ34 rectifier. May be used on AM phone at 50 watts input when externally plate-modulated (see Model 730-K, left). TVI-proofed by filtering, bypassing, copper-plated chassis, etc. Output load impedance, 50-1000 ohms. Size, 6x8 1/2 x 11 1/4". With all parts, tubes and instructions. For 110-120 v., 60 cycle AC. 16 lbs.

83 SX 653. No Money Down. NET 49.95

83 SX 654. Model 723. Wired. NET 79.95

### P&H Linear Amplifier



### 800 Watts PEP!

MODEL LA-400-C. Latest version of the popular LA-400 grounded-grid linear amplifier series. Offering high power at minimum cost, this excellent transmitter utilizes straightforward design, modern styling, and high-quality components throughout. May be driven up to 800 watts P.E.P. with 100-watt excitors; up to 500 watts input with 30-watt excitors. For SSB, DSB, linear AM, CW, PM and FSK operation.

Completely bandswitched, the LA-400-C covers all Ham bands from 80 through 10 meters. Features untuned 50-ohm input, 4 modified 1625's in grounded-grid circuit; and 3-element pi-network to match any antenna or load from 50-75 ohms. Meter reads grid drive, plate current and RF amps output. Also has built-in heavy-duty power supply, recessed panel, and gray crinkle cabinet. TVI-suppressed and parasitic-free, 9x15x10 1/2". For operation from 105-125 v., 50-60 cycle AC. With tubes. Factory wired and tested. Shpg. wt., 52 lbs.

91 SZ 992. NET 219.95

MODEL LA-400-C KIT. Same features as above, but in easy-to-assemble kit form. Supplied complete with all necessary parts, tubes and instructions. No Money Down.

91 SZ 993. NET 164.95

Write or Phone Allied's Ham Shack for a King-Size Trade-In Offer

**NEW! LOW COST KIT**



**PHILMORE "Vanguard" 6 and 2 Meter Amateur Transmitter Kit**

**PHILMORE 6 & 2 METER TRANSMITTER**

NET  
**\$179<sup>95</sup>**

**NO MONEY DOWN**

**MODEL CT62.** New, easy-to-build 6 and 2 meter transmitter provides all the features required by General and Technician class Hams for outstanding VHF operation. Operates on a power input of 60 watts on both 6 and 2-meter CW, 55 watts on 6-meter phone, and 50 watts on 2-meter phone; has specially developed "dual-link" output network which insures maximum loading efficiency on both bands; 6146 final operates straight through on both bands—eliminates the parasitics and tricky neutralization problems encountered when doubling occurs in the final. In handsome cabinet, 6½x17x12". For 105-125 v., 60 cycle AC. Shpg. wt., 37 lbs.  
90 SU 157.....NET 179.95

- Highly Stable, Built-In VFO
- Push-Pull Plate Modulation
- Handsome Design



Perfect For  
Either Mobile  
or Fixed  
Station Use

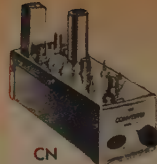


**LINCOLN 6-METER TRANSCEIVER**

The outstanding, low-cost Lincoln transceiver offers an easy and inexpensive way for any Ham to "get on" the popular 6-meter band. It features a highly sensitive, tunable superhet receiver that covers the entire 6-meter band, and an efficient transmitter that uses a 6CX8 final at 7 watts input.

Receiver has a built-in, adjustable noise limiter. Transmitter has a built-in TVI filter; tunable output matches 30-100 ohm antenna. Crystal socket located on front panel; transmitter uses 3rd-overtone crystals. Has neon modulation indicator.

With mike and 50.2 mc crystal. Built-in power supply requires 110-120 v., 60 cycle AC. 5½x10½x6¾". Wt., 11 lbs.  
78 SZ 195. No Money Down. NET 57.50  
12-VOLT POWER SUPPLY. 2½x5½x4¼". 4 lbs.  
78 S 163. NET.....10.95  
6-VOLT POWER SUPPLY. 2½x5½x4¼". 4 lbs.  
78 S 164. NET.....10.95



CN



CB



PV



PS-1

**AMECO VHF GEAR**

**CN-50W 6-METER CONVERTER.** Deluxe converter uses 3 RCA novistors for extremely low noise figure and high gain. 2x2½x6¾". Requires 100-150 v. @ 30 ma; 6.3 v. @ amp. (See PS-1W supply below.) 2 lbs.

77 S 921. 14-18 Mc Output. NET.....44.95  
77 S 928. 30.5-34.5 Mc Output. NET.....44.95

**CN-144W 2-METER CONVERTER.** As CN-50 above, but for 2 meters. 2 lbs.

77 S 922. 14-18 Mc Output. NET.....44.95  
77 S 929. 30.5-34.5 Mc Output. NET.....44.95

**CN-220W 1½ METER CONVERTER.**  
77 S 923. 14-18 Mc Output. NET.....44.95  
77 S 926. 30.5-34.5 Mc Output. NET.....44.95

**CB-6W 6 METER CONVERTER.** Efficient crystal-controlled converter. Requires 16 ma @ 100-150 v. DC and 850 ma @ 6.3 v. (See PS-1W below.) 2x2½x5". 1½ lbs.

77 S 924. 14-18 Mc Output. NET.....27.50  
77 S 936. 30.5-34.5 Mc Output. NET.....27.50

**CB-2W 2 METER CONVERTER.** Requires 6 ma @ 100-150 v. DC and 1.26 amps @ 6 v. (see PS-1W below.)

77 S 925. 14-18 Mc Output. NET.....33.95  
77 S 937. 30.5-34.5 Mc Output. NET.....33.95

Other IF outputs available on special order

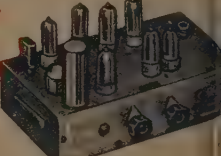
**PV-50 6 METER PREAMP.** New novistor preamp. When used with present converter receiver, improves gain and noise figure considerably. Takes 100-150 v. @ 10 ma; 6.3 @ 130 ma. 2½x2x3¼". 1 lb.  
77 S 938. NET.....13.95

**PV-144 2 METER PREAMP.** Shpg. wt., 1 lb.  
77 S 939. NET.....13.95

**PV-220 1½ METER PREAMP.** Shpg. wt., 1 lb.  
77 S 940. NET.....13.95

**PS-1W POWER SUPPLY.** Mates with any of the above converters. 2½x4½x4¼". 105-120 v., 60 cycle AC. Wt., 3 lbs.  
77 S 941. NET.....11.95

**TECRAFT VHF GEAR**



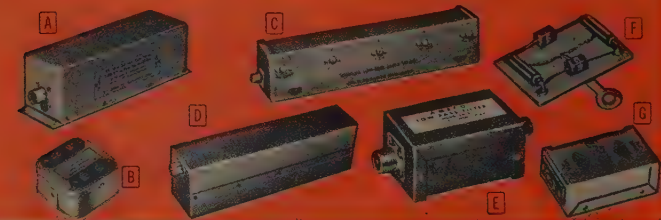
TR-20/50 Transmitter

**TR-20/50 TRANSMITTER.** 20-25 watts of meters. Uses 8-mc crystals in Pierce oscillator—eliminates tricky overtone circuit. Final works straight through. 6AL6, 6X4, 5763 buffer-doubler, 6360 amp, 12A6 speech, 2-6AQ5 mod. Requires 6.3 v. @ 3.89 amp and 250 v. DC @ ½ amp. 9½x5½x5". With crystals. Wt., 5 lbs.  
83 S 856. No Money Down. NET.....59.95

**TR-10/144 TRANSMITTER.** Same as above, but for 2 meters. Has extra 5763 buffer-multiplier.  
83 S 854. No Money Down. NET.....59.95

**83 S 855. PTR-2 Power Supply.** For all Tecraft units. 6.3 v. @ 6 a., 6.3 v. @ 4 a., 250 v. DC @ ½ a. 5½x9½x6". 110-120 v., 60 cycle AC. Shpg. wt., 17 lbs. NET.....39.95

**TVI FILTERS FOR TRANSMITTERS AND TV SETS**



**A** **DRAKE LOW-PASS FILTERS.** For 52-ohm coax. Ideal for 6 meters; cutoff is 52 mc. 77 S 743. TV-1000-LP. Rated 1 kw. RF. thru 10 meters; 200 watts on 6. Shpg. wt., 2 lbs. NET.....16.95  
77 S 744. TV-100-LP. Rated 100 watts. RF. through 10 meters; 20 watts on 6 meters. Shpg. wt., 1 lb. NET.....5.95

**B** **DRAKE TV-300-HF HIGH-PASS FILTER.** High-pass interference filter for use with any TV set having 300-ohm antenna input and 20 or 44-mc IF's. Attenuates interference from 0 to 52 mc more than 40 db; highly effective on 6-meter interference. Has iron-core, bifilar coils for maximum reduction of parallel current interference. Fully shielded. 2½x2½x1½". Wt., ½ lb.  
77 C 567. NET.....3.97

**C** **BUD LF-601A LOW-PASS FILTER.** For 52 or 72-ohm lines. 1 kw. Cutoff: 42 mc. Min. attenuation: 85 db above 54 mc; 93 db above 70 mc. 12x2½x2¼". 2½ lbs.  
73 S 047. NET.....16.90

**D** **B&W 425 LOW-PASS FILTER.** 52 ohms. 1 kw. Two "M" end sections; 4 constant-K center sections. 85 db attenuation on TV channels. 11x3x2". 1½ lbs.  
77 S 613. NET.....17.10  
MODEL 426. As above, but for 72-ohm lines.  
77 S 614. NET.....17.10

**E** **AMECO LN-2 LOW-PASS FILTER.** 1-section filter handles up to 200 watts RF. For 52 to 72-ohm coax. Has 2-SO-239 connectors. bracket. 4½x2½x1¼". 1 lb.  
77 S 675. NET.....3.75

**F** **AMECO HP-45 HIGH-PASS FILTER.** Effectively attenuates all signals below 45 mc. Greatly reduces TV interference—provides 40 db attenuation at 14 mc and below; 20 db at 10 meters. Easy to install; one side goes to antenna input of TV set, other side connects to antenna lead-in. For sets with 300-ohm inputs. 1½x2½x¾". Wt., 3 oz.  
77 S 673. NET.....95c

**AMECO HPX-45 HIGH-PASS FILTER.** (Not illus.) Deluxe, 2-section version of above. Cutoff frequency is 45 mc. Offers negligible insertion loss. Provides 80 db attenuation at 14 mc and below; 40 db attenuation at 10 meters. Easily installed in minutes—one side connects to TV set input, other side to antenna lead-in. For sets with 300-ohm inputs. 3½x2½x1½". Shpg. wt., 5 oz.  
77 S 686. NET.....2.25

**G** **BUD HF-600 HIGH-PASS FILTER.** Highly efficient filter for TV sets. Rejects all signals below 42 mc. Easy to install; connects between input terminals of TV set and antenna lead-in. For sets with 300-ohm inputs. 3½x2½x1½". Wt., 6 oz.  
73 S 046. NET.....4.85





## SSB and AM ANALYZER

Carefully Analyzes  
Both AM and SSB  
Transmitting Systems

Handles  
Up to 5 kw  
on 1 to 55 mc



MM-2



VFO-62

# Popular Ham Accessories from Leading Manufacturers

## AMECO CONELRAD MONITOR

DEL CD-1. A low-cost unit for converting radio having AVC into an effective m system. Loss of broadcast station removes AVC from trigger tube, giving warning tone. Function switches radio for monitoring. Size, 6 1/4 x 3 1/4 x 2 1/4. For operation from 110-120 v., 50-60 c AC. Shpg. wt., 2 1/2 lbs.

\$ 888. NET. 14.95

## DOW-KEY PREAMPLIFIER

DEL DKC-RFB. A broadband coaxial preamp specially designed for less sensitive receivers needing "front-end" drive. Increases 1 to 6 "S" units from 1.5-30 mc. Comp. and lightweight. No adjustments needed. Requires 125-175 v. DC at 7 ma and v. at 0.3 amps. For fixed or mobile use. 1 1/2 x 2 1/2. Shpg. wt., 8 oz.

\$ 703. NET. 10.75

## CENTRAL ELECTRONICS RF ANALYZER

MODEL MM-2. Analyzes SSB and AM transmitting systems up to 5 kw. Has 3" scope, low-distortion 1-kc audio oscillator, 5 positions (manual, sine and speech envelopes, and AF and RF trapezoids). Displays IF patterns of received signals when used with plug-in adapters (below). Furnishes 15-mv and 1.5-v. audio test signals. Coaxial input: 25-to-100 ohms. 9 1/4 x 6 1/4 x 1 1/2". For 110-120 v., 50-60 cycle AC. 19 lbs.

94 SU 842. NET. 149.50

83 SU 868. MM-2 RF ANALYZER KIT. As above, in kit form. NET. 119.50

94 S 818. RM-455 ADAPTER. For receivers with 400-500 kc. IF's. 1 lb. NET. 12.50

94 S 819. RM-50 ADAPTER. For receivers with 50 kc IF's. 1 lb. NET. 12.50

94 S 837. RM-80 ADAPTER. For receivers with 80 kc IF's. 1 lb. NET. 12.50

## NATIONAL 6 AND 2 METER VFO

MODEL VFO-62. A deluxe, self-powered 6 and 2-meter VFO designed for extreme stability and versatility. Use with transmitters having 8-mc oscillator circuits for coverage of the 50 and 144-mc bands. Frequency stability better than 0.005% after warm-up. Plugs into transmitter crystal socket. Vernier drive provides precise tuning. Complete shielding. 1-mc calibration crystal or your favorite transmitting crystal may be plugged into front-panel socket. In rugged gray plastic cabinet for maximum mechanical stability. Size, 5 1/4 x 6 1/4 x 5 1/4". For 110-120 v., 50-60 cycle AC. Shpg. wt., 6 lbs.

92 S 386. No Money Down. NET. 49.95



for the  
HAM SHACK

## HIGH-QUALITY PHONE PATCHES



JOHNSON 250-46. Rugged, compact Vining hybrid-transformer type phone patch. Permits push-to-talk or manual operation in addition to voice control operation (VOX) for SSB, DSB or AM. Has adjustable line-null control; separate gain control for transmitter and receiver inputs. Efficiently RF filtered, by-passed and isolated. 6x2x2 1/2". Wt., 3 lbs.

\$ 818. No Money Down. NET. 25.00

CONSET GPP-1. Advanced design phone patch for use with all popular equipment. Has efficient VU meter for monitor-phone line levels. No manual switching necessary when unit is used with VOX action on SSB gear. Unit is completely shielded and RF by-passed. Size, 4x6x4". Shpg. wt., 5 lbs.

\$ 773. No Money Down. NET. 44.50

C RAYPAR TE-1. For all popular equipment — includes an efficient balanced hybrid system for full automatic control of VOX systems. Equipped with built-in mike connectors for use with press-to-talk rigs. Size, 2 1/2 x 6 1/4 x 4 1/4". Shpg. wt., 3 1/2 lbs.

77 S 755. No Money Down. NET. 32.50

RAYPAR TE-1A. As above, but designed for use with transmitters not equipped for press-to-talk. Shpg. wt., 3 1/2 lbs.

77 S 756. No Money Down. NET. 32.50

D CESCO "ORIGINAL" TEL-O-PATCH. Patch provides outstanding voice reproduction. Works off any receiver having output impedance of 500-5000 ohms; designed for high gain or mike input, easily adaptable to low gain stage. 4x2x4". Wt., 2 lbs.

77 S 942. NET. 14.95

## SWR INDICATORS

ES 261 "MICROMATCH" ANTENNA COUPLER. For use with 262 indicator below, for measuring RF power and VSWR. Rated 1 at 1:1 VSWR. Has 52-ohm, coaxial UHF connectors. Range: .5-225 mc. Low power loss. 3x4 1/4". Wt., 1 lb.

\$ 117. No Money Down. NET. 22.50

ES 262 INDICATOR. Measures VSWR relative power, forward or reflected. 3 1/2 x 4 1/4 x 4 1/4". 2 lbs.

\$ 118. NET. 14.50

CO CM-52 "REFLECTOMETER." Provides continuous measurement of SWR on 52-ohm transmission lines. For 3-200 mcs; handles 1000 watts. Less than 1 db loss at 100 mc. 5 1/4 x 3 1/2 x 1 1/4". Shpg. wt., 2 lbs.

\$ 378. No Money Down. NET. 29.95



CESCO CM-75 "REFLECTOMETER." Same as CM-52 "Reflectometer" described at left, but designed for use on antenna systems 75-ohm coax transmission lines.

77 S 379. No Money Down. NET. 29.95

E PENNWOOD MODEL 100-24H 1/4 DIRECT-READING CLOCK. A highly attractive, 24-hour desk clock. Easy to read; shows time directly in numerals at a glance. In beautiful ebony plastic case. Size, 4x7x4 1/4". For 110-120 volts, 60 cycle AC. Shpg. wt., 3 lbs. Price includes F.E.T.

78 B 340. NET. 14.85

PENNWOOD MODEL 124 DIRECT READING CLOCK. As above, but has station call reminder that buzzes every 10 minutes.

78 B 251. No Money Down. NET. 22.05

F LAKESHORE "TIME MASTER." Gong sounds every 10 minutes to remind Ham to give his call. Ideal for VOX. 4 1/2 x 2 1/4 x 2 1/4". For 110-120 v., 50-60 cycle AC. 2 lbs.

83 S 860. NET. 8.85

G MASTERCRAFTER'S WORLD CLOCK. A top-value, economy-priced 24-hour wall clock that's ideal for Amateurs and short wave listeners. South polar map projection of the world on the inner dial face indicates time anywhere. Has rugged, all-metal construction; handsome chrome-plated case; professional appearance. Overall diameter is 8". For 110-120 volts, 60 cycle AC. Shpg. wt., 1 1/2 lbs. Price includes F.E.T.

78 S 354. NET. 8.47

## BELL MICROPHONES

MODEL CM-15C. Single-button carbon mike. DPST push-to-talk switch. 85 ohms. 200-4000 cps. 4-ft. cord. 1 1/2 lbs.

94 S 898. NET. 7.79

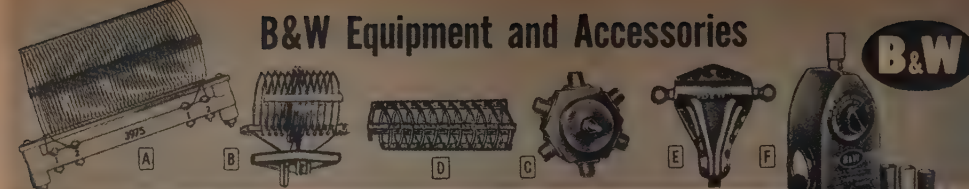
MODEL CM-1CC. As above, with 5-ft. coiled cord.

94 S 899. NET. 9.75



# B&W Equipment and Accessories

**B&W**



**A** TYPE 3975 BALUN COILS. Match 75-ohm unbalanced output to 75 or 300-ohm balanced transmission lines. Cover 80-10 meters; no switching or tuning. Rated at 250 watts. Less base. 12 oz. 2 required. **75 H 594. NET PER COIL.....3.15**

**B** 75-WATT JUNIOR COILS. Tune with 15-100 mmf. In fixed-end (JEL), fixed-center (JCL) or variable center (JVL) link-types. Fit std. 5-prong sockets.  $3\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8}$  in. 5 oz. **1.86**

| Band | JEL      | JCL      | JVL      | EACH |
|------|----------|----------|----------|------|
| 160  | 75 H 320 | 75 H 330 | 75 H 340 |      |
| 80   | 75 H 321 | 75 H 331 | 75 H 341 |      |
| 40   | 75 H 322 | 75 H 332 | 75 H 342 |      |
| 20   | 75 H 323 | 75 H 333 | 75 H 343 |      |
| 15   | 75 H 324 | 75 H 334 | 75 H 344 |      |
| 10   | 75 H 325 | 75 H 335 | 75 H 345 |      |
| 6    | 75 H 444 | 75 H 445 | 75 H 446 |      |

**C** 25-WATT BABY PLUG-IN COILS. Only  $1\frac{1}{2} \times 1\frac{1}{2} \times \frac{1}{8}$  in. MEL—end link, MCL—ctr. link. Tune with 50 mmf (except 100 mmf for 160M). Fit std. 5-prong sockets. Wt., 3 oz.

| Band | MEL      | MCL      | EACH |
|------|----------|----------|------|
| 160  | 75 H 300 | 75 H 310 |      |
| 80   | 75 H 301 | 75 H 311 |      |
| 40   | 75 H 302 | 75 H 312 |      |
| 20   | 75 H 303 | 75 H 313 |      |
| 15   | 75 H 304 | 75 H 314 |      |
| 10   | 75 H 305 | 75 H 315 |      |
| 6    | 75 H 306 | 75 H 316 |      |

**D** MINIDUCTOR COIL STOCK— $\frac{1}{2}$ " TO  $1\frac{1}{2}$ " DIA. Easily cut, air-wound coils  $\frac{1}{2}$ " and  $\frac{3}{4}$ " dia. are 2" long;  $\frac{1}{4}$ " and  $1\frac{1}{2}$ " 3" long. 4 oz. **4 Turns Per Inch**

| Stock No. | Type | Dia.             | Wt. | *TPI | Oz. | EACH |
|-----------|------|------------------|-----|------|-----|------|
| 75 H 305  | 3001 | $\frac{1}{2}$ "  | 14  | 8    | 9   | 1.86 |
| 75 H 309  | 3003 | $\frac{3}{4}$ "  | 14  | 8    | 12  | 1.86 |
| 75 H 319  | 3009 | $1\frac{1}{2}$ " | 14  | 8    | 12  | 1.86 |
| 75 H 328  | 3013 | $1\frac{1}{2}$ " | 14  | 8    | 12  | 1.86 |

**8 Turns Per Inch**

| Stock No. | Type | Dia.             | Wt. | *TPI | Oz. | EACH |
|-----------|------|------------------|-----|------|-----|------|
| 75 H 306  | 3002 | $\frac{1}{2}$ "  | 14  | 8    | 9   | 1.86 |
| 75 H 316  | 3006 | $\frac{3}{4}$ "  | 14  | 8    | 12  | 1.86 |
| 75 H 329  | 3010 | $1\frac{1}{2}$ " | 14  | 8    | 12  | 1.86 |
| 75 H 335  | 3015 | $1\frac{1}{2}$ " | 14  | 8    | 12  | 1.86 |

**E** CC-50 CONNECTOR. Weatherproof coax connector for doublet antennas. Internal connections. With sealing cement. 1 lb. **75 H 593. NET.....5.85**

**F** MODEL 600 GRID DIP METER. Covers 1.75 to 260 mc in 5 overlapping ranges. Sturdy plug-in coils are color-coded. Has sensitive 500-microampere meter with adjustable control. Useful as an RF signal monitor, auxiliary signal generator and absorption wave meter. Wedge shape permits access to hard-to-get-at places. Circuit consists of a highly sensitive oscillator using a type 955 acorn tube. Rust-proofed steel chassis and sturdy aluminum case. Gray finish. Size,  $7\frac{1}{2} \times 3\frac{1}{2} \times 3$  in. For 110-120 v., 50-60 cycle AC. Shpg. wt., 3 lbs. **84 S 487. NET.....45.72**

**D** MINIDUCTOR COIL STOCK— $\frac{1}{2}$ " TO  $1\frac{1}{2}$ " DIA. Easily cut, air-wound coils  $\frac{1}{2}$ " and  $\frac{3}{4}$ " dia. are 2" long;  $\frac{1}{4}$ " and  $1\frac{1}{2}$ " 3" long. 4 oz.

| 4 Turns Per Inch |      |                  | 8 Turns Per Inch |      |                  |
|------------------|------|------------------|------------------|------|------------------|
| Stock No.        | Type | Dia.             | Stock No.        | Type | Dia.             |
| 75 H 305         | 3001 | $\frac{1}{2}$ "  | 75 H 306         | 3002 | $\frac{1}{2}$ "  |
| 75 H 309         | 3003 | $\frac{3}{4}$ "  | 75 H 316         | 3006 | $\frac{3}{4}$ "  |
| 75 H 319         | 3009 | $1\frac{1}{2}$ " | 75 H 329         | 3010 | $1\frac{1}{2}$ " |
| 75 H 328         | 3013 | $1\frac{1}{2}$ " | 75 H 335         | 3015 | $1\frac{1}{2}$ " |

**MINIDUCTOR COIL STOCK— $2\frac{1}{2}$ " &  $2\frac{3}{4}$ " DIA.** All are 10" long. Easily cut to desired length. \*Turns per inch.

| Stock No. | Type | Dia.              | Wt. | *TPI | Oz. | EACH |
|-----------|------|-------------------|-----|------|-----|------|
| 75 H 406  | 3900 | 2"                | 14  | 8    | 9   | 1.86 |
| 75 H 407  | 3905 | 2 $\frac{1}{2}$ " | 12  | 6    | 13  | 1.95 |
| 75 H 408  | 3906 | 2 $\frac{1}{2}$ " | 14  | 8    | 12  | 1.86 |
| 75 H 409  | 3907 | 2 $\frac{3}{4}$ " | 16  | 10   | 8   | 1.86 |

**PI-NETWORK INDUCTORS**  
MODEL 850A. (Not illus.) For single or parallel tube operation on 80-10 meters. Rated 1 kw on CW, SSB and AM. Max. DC voltage CW-SSB, 4000; AM, 3000.  $10\frac{1}{2} \times 4\frac{1}{2} \times 7\frac{1}{2}$  in. Shpg. wt., 7 lbs. **92 S 374. No Money Down. NET. 35.00**

MODEL 851. As above, but rated 250 watts AM; 500 watts CW-SSB. Max. DC voltage AM, 1250; SSB-CW, 2000.  $7\frac{1}{2} \times 3\frac{1}{2} \times 4\frac{1}{2}$  in. **83 S 043. NET.....16.50**

## CHOKES AND PHASE-SHIFT NETWORKS

**MODEL 800 RF PLATE CHOKE.** (Not illus.) For transmitters with parallel or series-fed circuits. For 80-10 meters. Max. rating, 2500 v., DC at 500 ma.  $6\frac{1}{2} \times \frac{1}{4}$  dia. 2 lbs. **83 S 044. NET.....3.75**

**FILAMENT CHOKES.** (Not illus.) For grounded-grid amplifiers.  
**73 S 066.** FC-30, 30 amps.  $2\frac{1}{2} \times 1\frac{1}{2} \times 5\frac{1}{2}$  in. Shpg. wt., 2 $\frac{1}{2}$  lbs. NET.....**9.90**  
**73 S 067.** FC-15, 15 amps.  $1\frac{1}{2} \times 1\frac{1}{2} \times 4\frac{1}{2}$  in. Shpg. wt., 1 $\frac{1}{2}$  lbs. NET.....**7.50**

**MODEL 350-20A AUDIO PHASE-SHIFT NETWORK.** (Not illus.) Splits signals from 300-3000 cps into 2 equal components 90° out of phase. Octal base. Shpg. wt., 1 lb. **99 S 122. NET.....4.65**

## Amateur Station Accessories and Components

### ANTENNA TR SWITCHES



**G** ILLUMITRONIC VARI-PITCH "PI DUX." Air-core inductors, ideal for pi-output, LC-output, interstage and oscillator circuits. Tinned copper wire; supported by low-loss polystyrene rods. \*Turns per inch, 6 oz.

| Stock No. | Type   | Dia.              | *TPI    | Wire Length | EACH |
|-----------|--------|-------------------|---------|-------------|------|
| 72 H 477  | 820010 | 1"                | 20 & 10 | 18 3/4"     | 1.25 |
| 72 H 478  | 121206 | 1 $\frac{1}{2}$ " | 12 & 6  | 14 3 1/4"   | 2.00 |
| 72 H 479  | 160806 | 2"                | 8 & 6   | 12 4 1/4"   | 2.70 |
| 72 H 480  | 200805 | 2 $\frac{1}{2}$ " | 8 & 5   | 12 3 3/4"   | 3.25 |
| 72 H 481  | 240804 | 3"                | 8 & 4   | 10 3 3/4"   | 3.95 |

**H** MILLER MODEL 90672 ANTENNA BRIDGE. Accurately measures 5 to 500-ohm unbalanced impedances at frequencies to 150 mc. Differential capacitor provides high accuracy.  $3\frac{1}{2} \times 3\frac{1}{2} \times 5\frac{1}{2}$  in. 2 $\frac{1}{2}$  lbs. **83 S 834. NET.....45.00**

**J** CARDWELL "X" TYPE CAPACITORS. Single-section variable transmitting capacitors. Ideal for linear amplifiers. PL-8013 has 65 plates with air gap of .030"; size,  $5\frac{1}{2} \times 2\frac{1}{2} \times 5\frac{1}{2}$  in. PL-8048 has 21 plates with air gap of .070"; size,  $4\frac{1}{2} \times 3\frac{1}{2} \times 6\frac{1}{2}$  in.

| Stock No. | Type    | Capacity    | Lbs.            | NET   |
|-----------|---------|-------------|-----------------|-------|
| 75 H 047  | PL-8013 | 50-1500 mmf | 4               | 22.50 |
| 75 H 048  | PL-8048 | 20-220 mmf  | 3 $\frac{1}{2}$ | 10.73 |

**K** B&W MODEL 381 TR SWITCH. Provides electronic switching of antenna between receiver and transmitter. Handles full legal power limit on AM-CW-SSB and DSB, 80 through 10 meters. Offers high selectivity and excellent signal-to-noise ratio on all bands. Presents no signal loss; a substantial gain is realized throughout entire range. "Fail-safe" design protects transmitter if switch fails or is set on wrong band. Matches 52.5-ohm coax lines.  $4\frac{1}{2} \times 4\frac{1}{2} \times 5\frac{1}{2}$  in. For 110-120 v., 50-60 cycle AC. Wt., 5 lbs. **77 S 714. NET.....60.00**

**L** JOHNSON MODEL 250-39 TR SWITCH. Switches antenna between receiver and transmitter. Rated 4000 watts. Requires no tuning. Coax fittings.  $4\frac{1}{2} \times 4\frac{1}{2} \times 5\frac{1}{2}$  in. For 110-120 volts, 50-60 cycle AC. 5 lbs. **94 S 858. NET.....27.75**

**M** DOW-KEY ANTENNA TR SWITCHES. For fixed-station or mobile use. 6 or 12 volt operation. Rated at 1 kw. Require 125-150 v., DC at 5 ma. Av. shpg. wt., 10 oz. **77 S 760.** DKC-TRM-1, 1.5-30 mc., **12.50**  
**77 S 749.** DKC-TR2-A, 144-148 mc., **12.50**

**N** DOW-KEY DKC-TRP TR SWITCH. Coaxial TR switch switches antenna between receiver and transmitter electronically. Provides gain between antenna and receiver. For 1.8 to 30 mc; handles 1000 watts.  $4\frac{1}{2} \times 3\frac{1}{2} \times 2\frac{1}{2}$  in. For 110-120 v. AC. 1 $\frac{1}{2}$  lbs. **77 S 377. NET.....27.75**

**DOW-KEY COAX FITTINGS**  
DKF-2 is double male. DK60-P is panel mount female. Av. shpg. wt., 4 oz. **75 P 946.** DKF-2, NET.....**1.25**  
**77 S 759.** DK60-P, NET.....**.70c**

### ADVANCE COAXIAL ANTENNA RELAYS

**TYPE CB/1C2C/115VA.** (Not illus.) For 52-ohm type coax. Handles up to 800 watts. SPDT internal contacts are connected to 83-1R connector. Also external DPDT 2-amp contacts for auxiliary circuits. Size,  $4\frac{1}{2} \times 3\frac{1}{2} \times 3\frac{1}{2}$  in.

**27c.** For 115 v., 50-60 cycle AC. Wt., 11 oz. **76 P 254. NET.....13.25**  
**75 P 645.** CB/1C/115VA. As above, but less external DPDT contacts. NET.....**12.15**



# Crystals and Selected Amateur Accessories



Bud FCC-90B  
Frequency  
Calibrator

## Frequency Meters And Calibrators



Bud GX-79  
"Gimix"

Needs  
No  
Power  
Supply

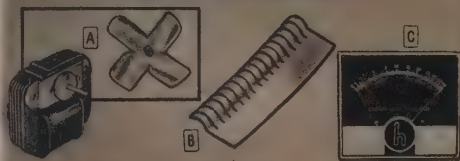
**JD FCC-90B FREQUENCY CALIBRATOR.** Consists of 100-kc crystal oscillator, trimmers, built-in power supply. Produces 100-kc signals across all Amateur bands through 30 mc. An invaluable station accessory—marks band edges. Output lead attaches to antenna post of receiver. Size,  $5\frac{1}{2}$ " high, 3" wide,  $2\frac{1}{4}$ " deep. For operation on 105-125 volts, 50-60 cycle AC or DC. Shpg. wt., 2 lbs.

**3 S 043. No Money Down. NET. 20.07**

**JD GX-79 "GIMIX."** A multi-purpose instrument requiring no batteries or power supply. Highly versatile, it can be used as a wave meter, a monitor, field strength indicator, carrier shift indicator, neutralizing instrument, etc. Calibrated for use on 10, 15, 20, 40, and 80 meter bands, unit is tuned to resonance by means of a built-in inductor bulb.  $6\frac{1}{4}$ "x $2\frac{3}{4}$ ". Shpg. wt., 1 lb.

**7 S 737. NET. 9.29**

## Station Accessories



**TUBE COOLING MOTOR AND FAN.** Extends tube life by keeping envelope and seals cool. Permits more effective shielding of RF amplifiers, etc., without depending on convection cooling. Shaded-pole induction motor, 2400 rpm.  $2\frac{1}{2}$ "x $2\frac{1}{2}$ "x $2\frac{1}{2}$ ". 4-blade fan, dia.,  $2\frac{1}{2}$ ". For 110-120 v., 50-60 cycle AC. Wt.,  $1\frac{1}{4}$  lbs.

**2 P 715. NET. 4.43**

**EIMAC CONTACT FINGER STOCK.** Silver-plated alloy stripping. Makes excellent contact; prevents RF leakage through cabinet doors. Secured mechanically or by soldering. 12 oz.

**2 P 086. 3' long;  $\frac{1}{8}$ " wide. NET. 5.77**

**2 P 087. 3' long;  $\frac{1}{8}$ " wide. NET. 6.23**

**2 P 088. 3' long;  $\frac{1}{8}$ " wide. NET. 6.70**

**HALLICRAFTERS "S" METER KIT.** An easily installed "S" meter for panel mounting. For use with Hallicrafters S-40B, S-20R, S-40A, S-42, S-77, S-77A, S-85, S-107, S-108, etc., as well as other receivers. Can be installed in any RF or IF stage with AVC action.  $3\frac{1}{4}$ "x $\frac{1}{4}$ " meter has black dial with white markings. Two scales; has microvolt scale calibrated from 0-1000K; "S" unit scale is calibrated to 80 db over S9. Requires  $2\frac{1}{2}$ "-diameter round hole for meter barrel and four  $\frac{1}{8}$ " holes for mounting studs. Can be separately mounted in individual meter case (see index). Kit consists of a 5.0 milliamperemeter meter, 500-ohm potentiometer for electrical zero-set, one 82-ohm  $\frac{1}{2}$ -watt 10% resistor, one 330-ohm  $\frac{1}{2}$ -watt 10% resistor, and instructions. Shpg. wt., 1 lb.

**37 S 740. NET. 12.00**

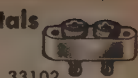
## Transmitting Crystals



H-173  
H-17



MC9  
Z2



33102



75-5

## JAMES KNIGHTS AND PETERSEN PR CRYSTALS

**PETERSEN Z2 AMATEUR CRYSTALS.** In black phenolic holder. Pin spacing, .486". Pin dia., .093". Tolerance,  $\pm 0.3\%$ . Size,  $1\frac{1}{4}$ "x $\frac{1}{4}$ "x $\frac{1}{4}$ ". Specify frequency. Supplied  $\pm 5$  kc of frequency specified. \*The Z-2 crystals listed under Stock No. 99 S 257 are cut to the exact frequency you specify. Allow 30 days for delivery. Shpg. wt., 3 oz.

| Stock No. | Frequency (kc) | Stock No. | Frequency (kc) | EACH |
|-----------|----------------|-----------|----------------|------|
| 99 S 253  | 1800-2000      | 99 S 267  | 7000-7500      | 2.95 |
| 99 S 266  | 3500-4000      | 99 S 259  | 8000-8230      |      |
| 99 S 254  | 6740-6800      | 99 S 296  | 8340-9000      |      |

**99 S 257. 1.8-20.0 mc.\* EACH. 4.80**

**JK H-173 AMATEUR CRYSTALS.** For oscillators with low crystal current. Pin spacing, .486". Pin dia., .050".  $\frac{3}{4}$ "x $\frac{3}{4}$ "x $\frac{1}{4}$ ". Special order only. Allow 30 days for delivery. Specify frequency. Shpg. wt., 3 oz.

| Stock No. | Frequency | Tolerance    | EACH |
|-----------|-----------|--------------|------|
| 99 S 263  | 1.8-40 mc | $\pm .01\%$  | 4.95 |
| 99 S 264  | 1.8-75 mc | $\pm .005\%$ | 5.95 |

**JK H-93 FREQUENCY-STANDARD CRYSTALS.** Black phenolic base; anodized aluminum can. Silver-plated crystal. Pin spacing, .486". Pin dia., .093". Tolerance,  $\pm .005\%$ . 2" long;  $1\frac{1}{4}$ " dia. 3 oz.

**99 S 284. 100 kc. 99 S 287. 1000 kc. NET EACH. 6.95**

**JK SPECIAL-APPLICATION CRYSTALS.** Size,  $\frac{3}{4}$ "x $\frac{3}{4}$ "x $\frac{1}{4}$ ". Pin spacing, .486". Pin dia., .093". \*3rd overtone type. Av. shpg. wt., 3 oz.

| Stock No. | Type   | Frequency | Tolerance    | Application   | EACH |
|-----------|--------|-----------|--------------|---------------|------|
| 99 S 286  | H-17L  | 4.5 mc    | $\pm .005\%$ | TV alignment  | 4.80 |
| 99 S 258  | H-17L* | 27.255 mc | $\pm .005\%$ | Radio control | 2.50 |

**JK INDUSTRIAL CRYSTALS.** Case size: Type H-17,  $\frac{1}{4}$ "x $\frac{3}{4}$ "x $\frac{1}{4}$ "; H-17T,  $1\frac{1}{2}$ "x $\frac{3}{4}$ "x $\frac{1}{4}$ ". Pin spacing, .486". Pin diameter, .050". Special order only. Allow 30 days for delivery. Specify Type No. and frequency. Av. shpg. wt., 3 oz.

| Stock No. | Type            | Frequency    | Tolerance     | EACH  |
|-----------|-----------------|--------------|---------------|-------|
| 99 S 915  | H-17T (HC-13/U) | 16 kc-200 kc | $\pm 0.01\%$  | 19.95 |
| 99 S 916  | H-17 (HC-6/U)   | 200 kc-50 mc | $\pm 0.005\%$ | 14.95 |
| 99 S 917  | H-17 (HC-6/U)   | 50 mc-150 mc | $\pm 0.005\%$ | 19.95 |

## BILEY SPECIALIZED SERVICE CRYSTALS

**TYPE MC-9 ALIGNMENT CRYSTALS.** For use as marker in sweep generators or for calibration purposes. Phenolic holder,  $1\frac{1}{4}$ "x $\frac{1}{4}$ "x $\frac{1}{4}$ ". Tol.,  $\pm 0.2\%$ . Pin spacing, .486" ( $\frac{1}{2}$ "); dia., .093". 3 oz.

**99 S 143. 5.0 mc. 99 S 145. 10.7 mc. NET EACH. 3.95**

## MILLEN LOW-LOSS STEATITE CRYSTAL SOCKETS

Phosphor-bronze contacts; tinned lugs. Av. shpg. wt., 2 oz.

| Stock No. | Type  | Pin Spacing     | Pin Diameter | NET EACH |
|-----------|-------|-----------------|--------------|----------|
| 72 H 035  | 33102 | .486"           | .094"        | 36¢      |
| 72 H 075  | 33302 | .486"           | .050"        | 24¢      |
| 72 H 029  | 33002 | $\frac{3}{4}$ " | .125"        | 36¢      |

## MOSLEY ADAPTERS

**TYPE 75-5.** Adapts .750"-spaced holders to .486" sockets. 2 oz.

**72 C 707. NET. 39¢**

**TYPE 5-75.** Adapts .486"-spaced holders to  $\frac{3}{4}$ " sockets. 2 oz.

**72 C 708. NET. 39¢**

# A Budget Buy for the Discriminating Novice or SWL!

## Low-Cost Philmore Receiver Kit

- Four-Band Superhet
- Electrical Bandspread
- 550 kc through 30 mc
- Built-In 4" Speaker

**MODEL CR-5AC.** A highly sensitive, bandswitching receiver covering all frequencies from 550 kc to 30 mc in four ranges. Electrical bandspread and "S" meter simplify tuning. Has built-in 4" speaker, variable BFO control, noise limiter, AVC, RF and AF gain controls, phone jack, etc. With 4 tubes, rectifier and all parts. Less cabinet below.  $6\frac{1}{2}$ "x $9\frac{1}{2}$ ". For 110-120 v., 50-60 cycle AC. 12 lbs.

**7 SX 826. No Money Down. NET. 49.95**

**MODEL CR STEEL CABINET.** For above.  $6\frac{1}{2}$ "x $15\frac{1}{2}$ "x $10\frac{1}{2}$ ". 7 lbs.

**7 SX 827. NET. 9.45**



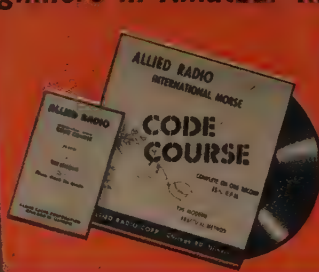
CR-5AC in Cabinet

## RIDER "SIGHT 'N' SOUND" CODE COURSE



Based on new, improved teaching concepts—you advance in steps of one-wpm-per-day.

- REC-08 Novice Course. (0-8 wpm). 3—LP records, 47 cards, book, 21 lbs.  
77 S 815, NET.....9.50
- REC-920 Advanced Course. (9-20 wpm). 3—10" LP records, cards, book, 2 lbs.  
77 S 816, NET.....8.95
- REC-020 Complete Course. (0-20 wpm). 6—10" LP records, cards, book, 6 lbs.  
77 S 817, NET.....15.95



## ALLIED CODE COURSES

COMPLETE 10-LESSON CODE COURSE ON SINGLE 12", 33 $\frac{1}{3}$ -RPM RECORD. Learn to send and receive well enough to pass novice or general class code examinations—with this single record, 5 lessons per side—takes you from start to 15 wpm. Back of record jacket contains International Morse Code table. Includes 20-page Allied instruction book. Shpg. wt., 1 lb.

- 77 S 684, NET.....4.49
- ALLIED'S 5-RECORD CODE COURSE. "Eye-Ear" method of learning code at home—eye follows the letters as the ear hears the sounds. Five 10", 78 rpm records recorded on each side. From 2 to 15 wpm in 10 lessons. Includes instruction book, 6 lbs.  
77 S 643, NET.....5.95



## AMECO CODE COURSES

Junior Course: five 45 or 78-rpm records or one 33 $\frac{1}{3}$ -rpm LP; from start to 7 $\frac{1}{2}$  wpm. Advanced: six 45 or 78-rpm records or one 33 $\frac{1}{3}$ -rpm LP; 8 $\frac{1}{2}$  to 18 wpm. Senior: eleven 45 or 78-rpm records or two 33 $\frac{1}{3}$ -rpm LP's; from start to 18 wpm. All courses include a 28-page manual with FCC-type exams.

| Stock No. | Course   | Speed                | Wt.                  | NET   |
|-----------|----------|----------------------|----------------------|-------|
| 77 S 616  | Junior   | 78 rpm               | 4 lbs.               | 6.95  |
| 77 S 647  | Junior   | 45 rpm               | 1 $\frac{1}{2}$ lbs. | 5.95  |
| 76 S 075  | Junior   | 33 $\frac{1}{3}$ rpm | 1 lb.                | 4.95  |
| 77 S 619  | Advanced | 78 rpm               | 4 lbs.               | 5.95  |
| 77 S 648  | Advanced | 45 rpm               | 1 $\frac{1}{2}$ lbs. | 4.95  |
| 76 S 076  | Advanced | 33 $\frac{1}{3}$ rpm | 1 lb.                | 4.95  |
| 77 S 617  | Senior   | 78 rpm               | 7 lbs.               | 11.50 |
| 77 S 649  | Senior   | 45 rpm               | 4 lbs.               | 10.50 |
| 76 S 077  | Senior   | 33 $\frac{1}{3}$ rpm | 2 lbs.               | 9.50  |

## Code Practice Oscillators



- A** JACKSON 562-B CODE PRACTICE OSCILLATOR. Low-cost transistor code oscillator for self-practice, teaching or monitoring. For use with external magnetic phones and key. With tone adjustment. Less battery, below. 6 $\frac{1}{2}$ x3 $\frac{1}{2}$ x2". Wt., 2 lbs.  
77 S 640, NET.....9.95
- BATTERY FOR ABOVE. 1 $\frac{1}{2}$  v. Wt., 8 oz.  
53 J 009, NET.....14c

- B** BUD MODEL CPO-155T TRANSISTORIZED CODE PRACTICE OSCILLATOR AND MONITOR. Low-cost unit for use with headphones. Lightweight and compact in size—only 1 $\frac{1}{2}$ x4 $\frac{1}{2}$ x2 $\frac{1}{4}$ ". Requires 2 penlight batteries, below. Shpg. wt., 2 lbs.  
77 S 728, NET.....5.76
- 78 J 243, PENLIGHT CELL. 2 oz. EA.....10c

- C** AMECO CPS-WT CODE PRACTICE OSCILLATOR. Deluxe oscillator has 4" PM speaker for loud, clear tone; click filter. Doubles as keying monitor. 6 $\frac{1}{2}$ x5x3 $\frac{1}{2}$ ". For 110-120 v., AC or DC, 3 lbs.  
77 S 629, NET.....14.95

- D** BUD CPO-128B CODEMASTER. May be used as CW monitor. Has 4" PM speaker; volume and pitch controls, external speaker may be plugged into built-in headphone jack. Several headphones and keys may be paralleled for group instruction. Size, 6 $\frac{1}{2}$ x5 $\frac{1}{2}$ x3 $\frac{1}{2}$ ". For 110-120 v., AC or DC. Shpg. wt., 5 lbs.  
73 S 044, NET.....18.75

- STANDARD PHONE PLUG. For attaching keys and headphones to CPO-128B described above. Shpg. wt., 3 oz.  
41 H 641, NET.....44c
- CABLE. Extension cord for keys. 2 oz.  
48 W 805, NET PER FOOT.....2 $\frac{1}{2}$ c

- E** GONSET 3022 "MONITONE". Monitor and code practice oscillator with built-in speaker, provision for headphones, separate tone and volume controls. Monitor uses RF pickup link. Case size is 6x7x6". For operation from 110-120 volts, AC or DC. Shpg. wt., 4 lbs.  
83 S 829, NET.....29.50



## POPULAR LEARNING KEYS

- F** JOHNSON MODEL 114-310 STANDARD KEY. Precision-built, moderately priced key. "Cushion contact" design for smooth action. Heavy die-cast base is finished in black wrinkle enamel; mechanical parts are nickel-plated.  $\frac{1}{8}$ " silver contacts. Adjustable tension and contact spacing; adjustable bearings. Shpg. wt., 2 lbs.  
76 S 055, NET.....3.10

- G** JOHNSON MODEL 114-300 PRACTICE KEY. Low-cost general purpose key. Brown molded phenolic base and knob. Adjustable key arm, spring and smooth-action bearings—easily adjusted tension and contact spacing.  $\frac{1}{8}$ " silver contacts. With code card. Shpg. wt., 8 oz.  
76 S 053, NET.....2.25

- H** JOHNSON MODEL 114-450 BUZZER CODE PRACTICE SET. Consists of key and constant high-frequency buzzer on brown bakelite base. Key has silver contacts. Can be used individually or in pairs. Requires 2—1 $\frac{1}{2}$  v. batteries. Shpg. wt., 2 lbs.  
76 S 059, NET.....4.90

- J** JOHNSON MODEL 114-400 HIGH-FREQUENCY BUZZER. Buzzer only (as used in set above). Use with hand key for code practice. Provides enough volume for several listeners. Screw adjustment provides variable tone. Requires 3 v. battery combination. Shpg. wt., 5 oz.  
76 S 060, NET.....1.85

## DOW-KEY

## KEY-municator Code Practice Set

ONLY  
**\$9.95**

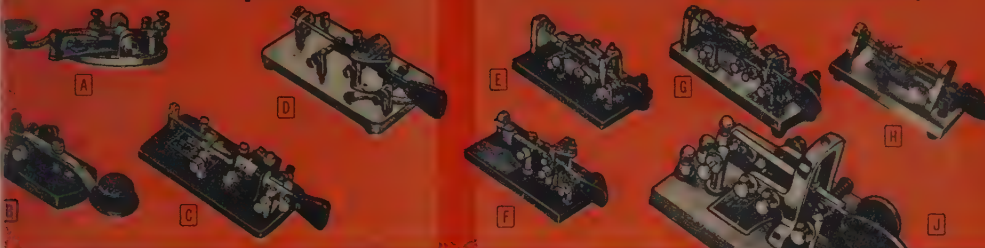


Ideal for learning the code. Two or more sets can be wired together (with any 2-conductor cable) to form a private telegraph line—sets can be miles apart. Built-in transistor oscillator. With key on 9x12" board that lists code, earphone, message pad, and batteries. Shpg. wt., 2 lbs.  
78 S 145, NET.....9.95



# JOHNSON Speed-X

# VIBROPLEX Semi-Automatic Keys



## JOHNSON and VIBROPLEX Keys

**JOHNSON 114-100-3 DELUXE HAND KEY.** A precision-made hand key of exceptionally high quality. Carefully tempered and, hardened and polished fine at pivots provide lively action for both, easy sending. An excellent key for beginner and old-timer alike. Spring action, contact spacing and bearing pressure are easily adjustable. Base and binding is have instrument lacquer coating to protect the highly attractive satin-brass finish of key. Contacts are durable, pit-resistant alloy. Contact dia., .072". With shorting ch. Shpg. wt., 2 lbs.

**\$ 736. NET. . . . . 6.85**

**DEL 114-100 KEY.** Same as above, but shorting switch.

**\$ 735. NET. . . . . 5.95**

**JOHNSON 114-320 STANDARD KEY.** Telegraph key built to rigid specifications smooth, comfortable sending. Large, chrome-plated key arm supported by hardened steel bearings. Large,  $\frac{1}{4}$ " coiled contacts. Improved Navy-type knob, adjustable spacing and tension. Heavy is connector concealed under base. Black cast base. Shpg. wt., 2 lbs.

**\$ 558. NET. . . . . 4.70**

**JOHNSON MODEL 114-520 SEMI-AUTOMATIC KEY.** A semi-automatic key for both, effortless radiotelegraph sending, tact spacing and sliding weight easily adjustable to desired sending speed. Has cut closing switch. Ruggedly constructed long dependable use. Has  $\frac{1}{8}$ " coin-silver contacts. Hardware and vibrator are heavily chrome plated. Heavy, die-cast base finished black wrinkle enamel. Rubber feet keep key in stationary position on operating table. Shpg. wt., 4 lbs.

**\$ 665. NET. . . . . 13.95**

**D JOHNSON 114-501 DELUXE SEMI-AUTOMATIC KEY.** A smooth operating key with  $\frac{1}{4}$ " contacts. Arm, posts, circuit closing switch and all machine parts are heavily chrome-plated. Adjustable from lowest to highest speeds. Has five adjustments with lock nuts—plastic paddles adjust separately to best height. On polished chrome base with rubber feet to prevent slippage or marring table-top. Shpg. wt., 5 lbs.

**76 S 069. NET. . . . . 20.65**

**MODEL 114-500 KEY.** As above, but with  $\frac{1}{4}$ " contacts and smart, black wrinkle steel base. Shpg. wt., 5 lbs.

**76 S 068. NET. . . . . 17.95**

**E VIBROPLEX "ORIGINAL."** A semi-automatic key for use at all speeds. Can be slowed down to 10 words per minute or less, and geared to as high a rate of speed as desired. Chrome-plated mechanism; gray cast iron base with slip-proof rubber feet. Less cord and wedge. Shpg. wt., 5 lbs.

**76 S 035. NET. . . . . 22.45**

**DELUXE "ORIGINAL."** As above, but with jeweled bearings and fully chrome-plated base. Shpg. wt., 5 lbs.

**76 S 038. NET. . . . . 26.95**

**F VIBROPLEX "CHAMPION."** Inexpensive, semi-automatic key. Designed for smooth, easy operation. Mechanism chrome plated; base is attractive gray crackle finish. Less cord and wedge. Wt., 4 lbs.

**76 S 036. NET. . . . . 17.95**

**G VIBROPLEX STANDARD "BLUE RACER."** Precision construction. Chrome-plated mechanism. Gray base. Less cord and wedge. Shpg. wt., 4 lbs.

**76 S 045. NET. . . . . 22.45**

**DELUXE "BLUE RACER."** As above, but jeweled bearings, chrome base. 4 lbs.

**76 S 046. NET. . . . . 26.95**

**H NEW VIBROPLEX "PRESENTATION."** Beautifully designed key offers a lifetime of sending enjoyment. Features patented adjustable main spring that provides extremely wide range of speed. Jeweled movement resists friction, maintains smoother, easier operation and prolongs life. Has polished chromium precision machined parts mounted on a 24 K gold-plated base top with red switch knob, finger and thumb piece. Rubber feet on bottom prevent slipping and protect finishes. Comes less cord and wedge. Shpg. wt., 5 lbs.

**77 S 919. NET. . . . . 33.95**

**J VIBROPLEX "VIBRO-KEYER."** The perfect key for your electronic "bug." Permits smooth, effortless sending; greatly aids in increasing your sending speed. Tension and pressure fully adjustable. Features sturdy main frame, chrome-finished parts, and large contacts. Easy-operating lever. Has colorful red finger and thumb pieces.

Mounted on beautiful beige colored base; large rubber feet on bottom protect finishes and prevent unit from slipping when operated. Shpg. wt., 3 lbs.

**77 S 907. NET. . . . . 17.95**

**VIBROPLEX CARRYING CASE.** Not illustrated. Fits all keys except "Blue Racer." Cloth-lined; has lock and key; carrying handle. Styled in handsome, simulated black morocco. Shpg. wt., 2 lbs.

**76 S 037. NET. . . . . 6.75**

**CORD AND WEDGE SET.** For use when 2 keys are wired in series. Wedge shorts out contacts of one key; other key controls sending. Shpg. wt. 3 oz.

**76 S 156. NET. . . . . 1.75**

## NEW! Hallicrafters HA-4 "T.O." Keyer

Transistorized  
Uses 8 Transistors  
and 10 Diodes



## Hammarlund HC-10 Converter

Has Sensitive Linear  
Detector and Adjustable  
Slot Filter



the discriminating CW operator who demands perfection. The "all-transistor" "T.O." Keyer employs modern digital computer techniques—uses 8 transistors and 10 diodes in an advanced circuit. Features constant dot-to-space-to-dash ratio over the entire 8 to wpm speed range. Dots and dashes are self-completing. High-voltage transistor keys transmitter—timing circuits are completely isolated. Dual range control provides continuously adjustable speeds. Monitor or sidetone may be heard through the self-contained speaker. Function switch allows semi-automatic or automatic keying. Front panel controls: On-off-function, speed, volume, or chassis; weight and "Hi-Lo" speed, terminal for transmitter key connections. Requires keying device (see Vibro-Keizer, page right). Self-contained transformer power supply. For 110-v., 50-60 cycle AC. Size,  $2\frac{1}{2} \times 1\frac{1}{2} \times 5\frac{7}{8}$ ". Shpg. wt.,  $3\frac{1}{2}$  lbs.

**\$ 920. No Money Down. NET. . . . . 59.95**

Self-powered IF converter and audio system for receivers having 450-500 kc IFs. Provides the ultimate in SSB, AM, CW and MCW reception. Simple to install—just plug into tube socket of last IF tube in your receiver. Does not affect normal operation of receiver. Razor-sharp slot filter is adjustable  $\pm 5$ -kc over passband for better than 40 db attenuation of unwanted signal. Has linear product detector, 3-speed AVC control, passband tuning control  $\pm 3$ -kc for easy SSB reception, tuned IF amplifier with seven selectivity positions having mechanical filter-type skirt selectivity. BFO is stable Clapp-type oscillator circuit, adjustable  $\pm 2$ -kc. Uses 9 tubes plus rectifier. Size,  $9\frac{1}{2} \times 9\frac{1}{2} \times 7\frac{1}{2}$ ". Supplied with plug-in adapters for miniature or octal tubes. For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 17 lbs.

**94 SX 823. No Money Down. NET. . . . . 149.00**

# Rotators, Towers, Antennas and Accessories

## CDR HAM-M Rotator



Rotator

Remote Control

- Controls Large Antennas
- Load Rating Over 1000 Lbs.

Heavy-duty rotator system for control of large antennas in high winds. Features rugged brake and motor with stainless steel gears and 98 ball bearings. Has end-of-rotation power cut-off. Vertical load rating over 1000 lbs.—heavy plates distribute stresses. Indicator can be read without starting motor. Meter calibrated with compass points, and in 3° increments. Provides 365 inch-lbs. rotating torque; 3500 inch-lbs. braking. Accommodates 7/8 to 2" O.D. masts. Less cable (below). For 115 v., 60 cycle AC. 23 lbs.

92 SX 357. NET.....117.11

47 T 330. 100-Ft. Coil Belden 8448 8-Conductor Cable. For above. 4 1/2 lbs. NET.....6.27

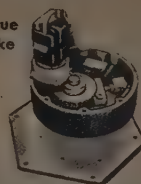


Light-Wedge Indicator

RBX-1 High-Torque Rotator and Brake



Compact Control Box



For Interior Tower Mounting

## HY-GAIN BEAM ROTATOR AND CONTROL SYSTEM

RBX-1 "ROTO-BRAKE". Rugged, heavy-duty, precision rotator-brake. Capacity motor rotator with zinc-plated steel gears develops 1000 inch-lbs. torque—brake provides 10,000 inch-lbs. braking torque—sufficient to withstand forces of high velocity winds on large arrays. Rated to 1000 lbs. downthrust. Mounts in towers with 10-18" between uprights. Height, 9". Less cable (right). For 115-120 v., 50-60 cycle AC. Side-mounting kits available—write for prices. Shpg. wt., 35 lbs. "Roto-Brake" is shipped by express or truck only.

83 SU 691. NET.....129.95

CONTROL SYSTEM. Consists of a translucent great-circle world map indicator and control box. Countries are outlined and marked with their respective call prefixes. Selsyn-controlled wedge of light rotates with beam. Use only with RBX-1. With wall mounting bracket. For Central U.S.A. Indicator, 3 1/2 x 18" dia. Wt., 3 lbs. Express or truck.

83 SU 692. NET.....70.00

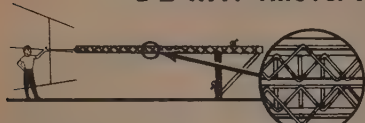
83 SU 693. For E. Coast. NET 70.00

83 SU 694. For W. Coast. NET 70.00

49 W 474. 9-Cond. Cable. For above.

4 lbs. per 100'. NET PER FT.....9c

## E-Z WAY Tiltover Antenna Tower



These towers go way up to snag DX, yet can be lowered easily for antenna adjustments. When used with Ground Post Mounting Kit (below) mount in 5-ft. hole. Require no concrete base or external guying. When used with Building Attached Kit (below), anchor to side of an adjoining structure. Made of heavy-wall structural steel tubing, solid steel rod and continuous diagonal bracing. Will support a full-sized beam in winds of 60 mph or higher. Thrust bearing relieves rotor of all weight. Hot-dipped galvanized surfaces, except \*dip-painted. Ac-

cepts Ham-M rotor head. Other rotor heads on special order. Specify rotator to be used when ordering. Shipped by truck or rail, prepaid Tampa, Fla., or Chicago, Ill., whichever is nearer. Send full remittance on cash orders—no C.O.D. Available on Credit Fund Plan.

| Stock No. | Model No. | Description       | Ft. | Lbs. | NET EACH |
|-----------|-----------|-------------------|-----|------|----------|
| 77 CZ 860 | RBS-40P*  | Std. duty 2 sec.  | 41  | 180  | 169.50   |
| 77 CZ 861 | RBS-40G   | Std. duty 2 sec.  | 41  | 190  | 209.50   |
| 77 CZ 862 | RBS-50G   | Std. duty 2 sec.  | 51  | 235  | 279.50   |
| 77 CZ 863 | RBS-60-36 | Heavy-duty 3 sec. | 60  | 355  | 410.00   |

## E-Z WAY GROUND POST AND SIDE MOUNTING KITS

Ground Post kits (GPK types) contain all necessary equipment for mounting towers in the ground, without concrete base or guying. Building Attached kit (BAK-S40) is for mounting tower alongside a building.

| Stock No. | Model No. | Use With     | Lbs. | NET EACH |
|-----------|-----------|--------------|------|----------|
| 77 CZ 864 | BAK-S40   | Any RBS Twr. | 10   | 1.50     |
| 77 CZ 865 | GPK-S40   | RBS-40P or G | 150  | 75.00    |
| 77 CZ 866 | GPK-S50   | RBS-50G      | 195  | 90.00    |
| 77 CZ 867 | GPK-X60-3 | RBX-60-36    | 345  | 120.00   |

## USE ALLIED'S CREDIT FUND PLAN

You'll get more fun from Ham radio when you use the latest in station gear. Allied's new Credit Fund Plan gives you up to 50% more buying power. No money down. Low monthly payments. Take up to 24 months to pay.

## Amphenol Folded Dipoles



Folded-dipole antennas for transmitting and receiving on the four most popular Amateur bands. Have excellent broadband characteristics.

Has 300-ohm copper-clad steel conductors. (Use 20-meter dipole for 15-meters; 40-meter dipole for the 9 or 12-mc SW band.) With T-block and 75 feet of 300-ohm twin-lead.

| No.       | Type    | Band | Feet | Lbs. | EACH  |
|-----------|---------|------|------|------|-------|
| 98 S 318  | 139-010 | 10   | 18   | 2    | 5.35  |
| 98 SX 319 | 139-020 | 20   | 35   | 3    | 6.00  |
| 98 SX 320 | 139-040 | 40   | 70   | 4    | 7.80  |
| 98 SX 321 | 139-080 | 80   | 135  | 5    | 11.25 |

## Transmission Line and Coaxial Fittings

### TWIN-LEAD AND COAXIAL TRANSMISSION LINE

AMPHENOL TYPE 214-076 TRANSMITTING TWIN-LEAD. 300-ohm air-core tubular. 7/26 copper conductors. Rated 1 kw RF. Shpg. wt., 100 ft., 3 1/2 lbs. 100 ft. minimum.

49 TX 416. 100-ft. coil. NET.....6.36

AMPHENOL 214-023 TRANSMITTING TWIN-LEAD. 75 ohm. Handles up to 1 kw RF power. Propagation factor, 71%. Attenuation: 1.40 db per 100 ft. at 28 mc. Shpg. wt., 100 ft., 4 lbs.

49 W 495. NET PER FOOT.....7c

CONSOLIDATED RG COAXIAL CABLE. Highly dependable coax. Ideal for transmission lines and other RF applications. All have black vinyl jacket, polyethylene dielectric, copper braid shield and bare copper conductor except, RG11/U. \*tinned copper.

| Stock No. | Type    | Ohms | Mm/f/Ft. | O.D.  | Lbs. 100' | PER FT. |
|-----------|---------|------|----------|-------|-----------|---------|
| 49 W 104  | RG8/U   | 52   | 29.5     | .405" | 10 1/2    | 12c     |
| 49 W 109  | RG11/U* | 75   | 20.5     | .405" | 10        | 11c     |
| 49 W 113  | RG58/U  | 53.5 | 28.5     | .195" | 3         | 4 1/2c  |

AMPHENOL LOW-LOSS COAXIAL CABLE. Types 621-111 and 621-715 similar to RG8/U and RG59/U respectively, but have polyfoam dielectric. Attenuation 15% less than standard RG types.

| 49 W 644 | 621-111 | 50 | 26.5 | .405" | 10 1/2 | .156 |
|----------|---------|----|------|-------|--------|------|
| 49 W 339 | 621-715 | 73 | 17   | .195" | 2      | .050 |

### COAXIAL FITTINGS AND CONNECTORS

CUSH-CRAFT "BLITZ BUG" LIGHTNING ARRESTER. Coax fitting to protect transmission lines from lightning, as well as punctures from high SWR. Gap principle eliminates static build-up. Has Type 83 RF connectors. 3 1/4" long. Shpg. wt., 4 oz.

77 S 324. NET.....3.95

CESCO "DRI-FIT" CONNECTOR. A completely moisture-proof center connector ideal for use with dipole antennas. One-piece aluminum alloy construction. Handles maximum legal power. For RG8, RG58, RG11 or RG59, or 300-ohm twin lead. Easily installed in just a few minutes. Has "eye" pull-up for inverted V type antennas. Shpg. wt., 2 oz.

77 S 326. NET.....2.95



# Amateur Transmitting Antennas

**hy-gain**

**BIRD TRI-BAND BEAMS.** Cover 10, 15 and 20 meters. Employs aluminum 2" OD boom and 1 1/4" elements telescoping. Designed for 52-ohm coax. Less than 2 to 1 SWR on all bands adjusting. Withstand 2 kw P.E.P. Have new weatherproof "Slim-Traps" (1 1/2" dia.). TH-4 has pretuned beta match placed 4th element. L, boom length; R, turning radius.

| No. | Type | Elements | Db Gain | L   | R       | Lbs. | NET    |
|-----|------|----------|---------|-----|---------|------|--------|
| 61  | TH-4 | 4        | 8-9     | 16' | 17' 10" | 42   | 117.50 |
| 62  | TH-3 | 3        | Up to 8 | 14' | 14' 8"  | 36   | 89.95  |
| 63  | TH-2 | 2        | 5       | 6'  | 13' 8"  | 23   | 59.95  |

**AND VERTICALS.** Pre-tuned verticals for operating on up to 5 without switching. Weatherproof Slim-Traps develop wave resonance on all bands. Match 52-ohm transmission providing less than 2:1 SWR. Handles to 1 kw AM or CW; 2 P.P. Includes base insulator and mast mount.

| No. | Type   | Bands (Meters) | Height     | Shpg. Wt. | NET EACH |
|-----|--------|----------------|------------|-----------|----------|
| 488 | 14-AVS | 10, 15, 20, 40 | 21 ft.     | 11 lbs.   | 27.95    |
| 486 | 12-AVS | 10, 15, 20     | 13 1/2 ft. | 9 lbs.    | 21.95    |

916. 14-RMK Roof Mtg. Kit. For 14-AVS. 9 lbs. NET. 11.95

487. 12-RMK Roof Kit. For 12-AVS. 9 lbs. NET. 9.50

17. LC-80. 80 Meter Loading Coil. For 14-AVS. 1/2 lb. NET. 7.95

**18-HT HY-TOWER MULTI-BAND VERTICAL.** Completely self-erecting, for 10, 15, 20, 40 and 80 meters. No traps used. Stubbing method provides high efficiency and less than 2:1 SWR on all bands. 52-ohm coax feed. 26-ft. aluminum top mast extends height to 50-ft. overall. X-braced steel tower has 15" base. Base insulators; less ground rod. Shpg. wt., 105 lbs.

877. NET EACH. 129.50

**PLANE VERTICALS.** Variable-tuned models, below, cover commercial and citizens bands from 25-500 mc. Each can be peaked for a specific frequency. 52 ohms.

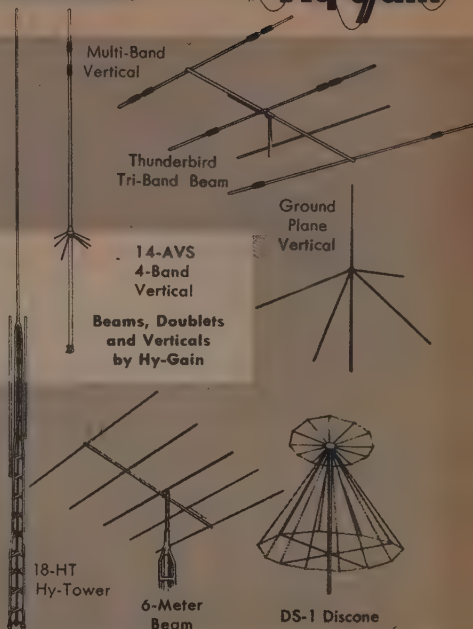
| No. | Model | Frequency Range | Height    | Shpg. Wt. | NET   |
|-----|-------|-----------------|-----------|-----------|-------|
| 878 | GP-1C | 25-50 mc        | 9 ft.     | 10 lbs.   | 32.70 |
| 879 | GP-2C | 50-88 mc        | 4 1/2 ft. | 7 lbs.    | 21.90 |
| 880 | GP-3C | 100-500 mc      | 1 1/2 ft. | 4 lbs.    | 14.97 |

**DS-1 DISCONE.** A fine, vertically polarized, omnidirectional antenna covering 50 through 500 mc. Maintains low angle radiation on nominal impedance throughout its broadband range as less than 1 1/2:1 SWR. Shpg. wt. 9 lbs.

369. NET EACH. 29.97

**BAND BEAMS.** All of these beam antennas have beta match; adjusted for less than 1 1/2:1 SWR into 52-ohm coax line. 210 may be fed with coax or parallel lines. All booms and legs are aluminum alloy. L, boom length; R, turning radius.

| No. | Type  | Band | Elements | DB Gain | F/B Ratio | R      | L   | Wt.     | NET   |
|-----|-------|------|----------|---------|-----------|--------|-----|---------|-------|
| 70  | 40Z-B | 40M  | 2        | 5       | 20db      | 16' 4" | 16' | 40 lbs. | 99.75 |
| 84  | 203-B | 20M  | 3        | 8+      | 25db      | 19' 3" | 16' | 25 lbs. | 65.95 |
| 83  | 153-B | 15M  | 3        | 8+      | 25db      | 13' 6" | 12' | 19 lbs. | 38.50 |
| 82  | 103-B | 10M  | 3        | 8+      | 25db      | 9' 8"  | 8'  | 12 lbs. | 32.95 |
| 81  | 65-B  | 6M   | 5        | 9       | 25db      | 7' 1"  | 8'  | 18 lbs. | 18.95 |
| 80  | 210   | 2M   | 10       | 13.4    | 30db      | 6' 3"  | 12' | 6 lbs.  | 14.95 |



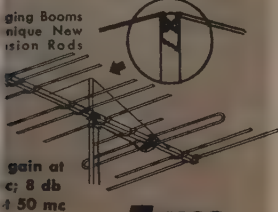
## MULTI-BAND DOUBLET ANTENNAS

("Compressed" illustration—actual length 32-to-130')

All employ copper-clad steel wire covered with polyethylene extrusion. Molded plastic end and center insulators. Use unique stub decoupling to perform on from 2 to 6 bands with less than 2:1 SWR. Less RG8/U.

| Stock No. | Model | Bands | Length | Lbs. | NET   |
|-----------|-------|-------|--------|------|-------|
| 77 SZ 887 | 6BD   | 6-80  | 130'   | 7    | 37.50 |
| 77 SZ 888 | 5BD   | 6-40  | 64'    | 5    | 29.95 |
| 77 SZ 889 | 4BD   | 6-20  | 32'    | 4    | 21.95 |
| 77 SZ 368 | 2BD   | 40-80 | 128'   | 6    | 34.95 |

## 6 AND 2 METER BEAM



**FINCO**

**A-62.** New, patented 6 and 2-meter vertical up to 20.5 db front to back in 2 meters, and up to 17.0 db gain in 4 driven element, reflector and 2 directors; 6; folded dipole with phasing—3-element colinear reflector and element colinear directors on 2, Snap-on for easy assembly; heavy duty 10-ft. aluminum boom. Turning 106-ft. 11 in. Shpg. wt., 11 lbs.

965. NET. 32.34

**AS-62 STACKING KIT.** For use in above antennas. Wt., 1/2 lb.

966. NET. 2.15

## MOSLEY ANTENNAS

**NEW S-402.** 2-element 40-meter beam. 52-ohm feed. 5 db gain, 20 db F/B. Longest element 44 1/4". Turn radius, 24' 4". 65 lbs.

77 CZ 918. NET. 124.50

**NEW TA-36.** 10, 15, and 20-meter beam. 20 db F/B ratio. Gain: 10 meters, 9 db; 15, 8.5 db; 20, 8 db. L/S/1 or better SWR.

Handles 1 Kw. Longest element, 29 ft. Turning radius, 19' 3". Wt., 75 lbs.

78 CZ 147. NET. 129.50

**TA-33.** High-gain 3-element 10, 15, and 20-meter beam. Up to 8 db gain; 25 db F/B. Weatherproof traps take 1 kw. 1/2" thick 14' aluminum boom. 1:1:1 SWR. Fits masts to 1 1/2". Turning radius 15 1/2". 54 lbs.

92 CZ 360. NET. 99.75

**92 CZ 478.** TA-33 "jr." Above, but 300-w. model. To 8 db gain, 25 db F/B. 12' boom. 14 3/4" turning radius. 28 lbs. NET. 69.50

**V-4-6.** Covers 10 to 40 meters. Low SWR; weatherproof traps rated 1 Kw. Aluminum tubing telescopes to 20 ft. With mtg. plate, hardware, nylon guys. 12 lbs.

92 CZ 363. NET. 27.95

**76 S 073.** D-ABC. 80-75 meter base loading coil for above. 3 lbs. NET. 15.67

**V-3.** 1-kw trap vertical for 10, 15, 20. 11 1/2' high. With guys. base. 8 lbs.

77 CZ 891. NET. 22.95

**V-3 JR.** As above, but 300 watts. 6 lbs.

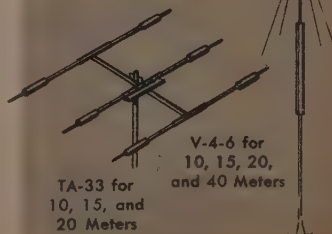
92 CZ 473. NET. 17.95

Multi-Band Antennas

**Mosley**



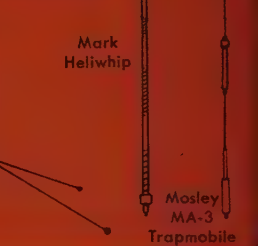
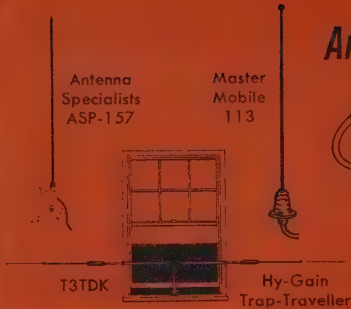
New TA-36 for 10, 15, 20 Meters



TA-33 for 10, 15, and 20 Meters

V-4-6 for 10, 15, 20, and 40 Meters

# Amateur Antennas and Accessories



## VHF MOBILE ANTENNAS

ANTENNA SPECIALISTS ASP-157 WHIP. Clamps on auto rain gutter. Cut for 144 mc. With 12-ft. RG58/U. PL-259. 1 1/2 lbs.  
92 SX 390. NET. **6.76**

MASTER MOBILE 113 WHIP. For auto roof-top mounting. Range: 140-165 mc. 3/8" hole. With 10 feet of coax. Shpg. wt., 1 lb.  
97 SX 148. NET. **3.88**

MASTER MOBILE 613 WHIP. As above, but with locking coaxial antenna-base connector.  
92 SX 355. NET. **4.85**

MASTER MOBILE 114 COAXIAL ANTENNA. (Not illus.) For 140-165 mc. Gives low radiation angle from vehicle or fixed location. With 10' coax. 3/8"-dia. stud. 5 lbs.  
97 SX 149. NET. **9.75**

## HY-GAIN TRAP TRAVELLER

MODEL T3TDK. Portable "micro-dipole" for 10, 15 and 20. Lgth., 16' extended; telescopes to 3' for easy carrying. Use with U/B bracket. 52 ohms. With 2 coils. 5 lbs.

78 SX 183. No Money Down. NET. **44.95**

77 SX 884. UB Mfg. Bracket. 5 lbs. **9.75**

77 SX 371. TCC Carrying Case. 1 lb. **8.95**

## "HALO" VHF MOBILE ANTENNAS

HY-GAIN HH-6. Popular 6-meter mobile antenna. Offers high mechanical stability and minimum wind resistance. 1" aluminum tubing. Fits std. mobile mount. Matches 52-ohm lines. Less mast. 5 lbs.

77 SX 868. NET. **12.95**

HY-GAIN HH-2. Similar to above, but for 2 meters. Only 14" dia. 1/2" aluminum tubing. Requires no matching. Less mast. 1 1/2 lbs.  
77 SX 869. NET. **5.95**

HY-GAIN HA MOUNTING MAST. 8-ft. aluminum mast takes 6 and 2-meter Halos singly or together. Fits std. mt. 3 lbs.  
77 CU 870. NET. **4.95**

## 2-METER GROUND PLANES

MASTER MOBILE "MASTERPLANE" 300. An effective 2-meter antenna. Four drooping and 4 adjustable straight radials. With 3-ft. mast. 52-ohm coax fitting. 3 lbs.

98 SX 357. NET. **12.69**

ANTENNA SPECIALISTS M-7A. A new antenna ideal for 2-meter work. Has vertical radiator and 4 radials. With U-bolt hardware for 3/4" pipe. Base accepts PL-259. 8 oz.  
78 SX 153. NET. **5.29**

## ANTENNA LOADING COILS

A 97 S 167. Master Mobile 666 "All Bander." Continuously variable, 10-75 meters. Selects any pair of adjacent turns. 2 3/4 x 1 3/4". Shpg. wt., 1 1/2 lbs. NET. **14.66**

92 S 516. Master Mobile 750 "Deluxe All Bander." As above, but selects any spot on any turn. 2 1/2 lbs. NET. **14.66**

B 83 CU 590. Master Mobile 8-1080 "Slim Jim." Base-loading, 10-75 meters. With 96" whip. 1 3/4 x 1 9/16". 4 1/2 lbs. NET. **17.59**

C 83 S 588. Master Mobile 900 "Aristocrat." Tapped for 10-75. For 2-section whip. 3x6". Shpg. wt., 1 1/2 lbs. NET. **14.66**

D 92 S 225. Master Mobile 825 "Micro-Z Match." Variable inductor matches any coax to any whip. 2 lbs. NET. **7.79**

E Master Mobile "Ultra-Hi-Q" Coils. For 1-band use with 2-section whip. 1 lb.

92 S 352. 80 Meters. 2 1/2 x 8". NET. **5.14**

92 S 353. 40 Meters. 2 1/2 x 5". NET. **5.14**

92 S 354. 20 Meters. 2 1/2 x 3". NET. **5.14**

K 77 S 885. Hy-Gain T-3 3-Band Coil. For center-loaded whips. Covers 10, 15 and 20 meters. 4 1/2 x 1 1/2". 3 lbs. NET. **16.95**

## 6-80 METER MOBILE WHIPS

MARK HW "HELIWHIP" SERIES. Fiberglass molded, continuously loaded miniature whips. For mounting on fender, trunk lid, etc. \*Bandwidth for 2:1 VSWR. Fit standard mounts or HWM-1 flat surface mount (b low). †Permits full 90° swiveling of HWM mount for side or angle mounting.

| Stock No. | Type  | Band              | *Kc  | Ft.   | Lbs.   | FAO   |
|-----------|-------|-------------------|------|-------|--------|-------|
| 77 SX 358 | HW-6  | 6 M               | 500  | 3 1/4 | 9 1/2  | 9.95  |
| 92 SX 322 | HW-10 | 10 M              | 1000 | 4     | 14     | 9.95  |
| 92 SX 323 | HW-15 | 15 M              | 1500 | 4 1/4 | 19 1/2 | 9.95  |
| 92 CX 324 | HW-20 | 20 M              | 250  | 6     | 1      | 10.95 |
| 92 CX 325 | HW-40 | 40 M              | 10   | 1     | 10.95  | 10.95 |
| 92 CX 326 | HW-80 | 80 M              | 60   | 1     | 10.95  | 10.95 |
| 92 CX 333 | HW-3  | 10-15-20M         |      | 3     | 19 1/2 | 9.95  |
| 92 S 327  | HWM-1 | Molded base mount |      | 3/2   | 7 1/2  | 7.95  |
| 90 S 122  | SA-11 | Swivel adapter    |      | 3     | 3.0    |       |

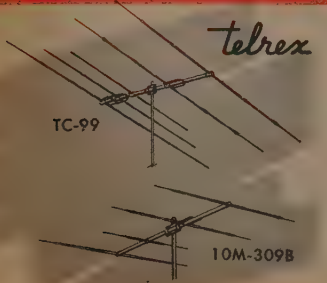
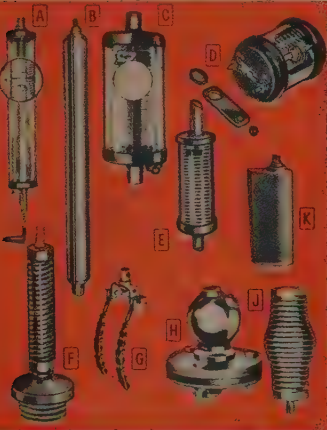
MOSLEY MA-3 "TRAMPOMOBILE." 3-band whip — no switching or retuning to change band. Top radiation efficiency and low SWR over full width of each band. Base coil and center trap cover 10, 15 and 20 meters. Use with standard base loading coils for 40 and 80 meters. Stainless steel whip section. Fits standard mounts. Length, 92 1/4". Shpg. wt. 6 lbs.

92 CX 332. No Money Down. NET 20.95

## MOBILE ANTENNA ACCESSORIES

A selection of top-quality mobile antenna and accessories. All are made by Master Mobile, except \*Antenna Specialists. A shpg. wt., 3 lbs.

| Stock No. | Type    | Fig. | Description                                            | Net  |
|-----------|---------|------|--------------------------------------------------------|------|
| 92 S 222  | 711     | F    | "Flex R" strain relief spring                          | 1.49 |
| 90 S 123  | ASP143* | G    | Double chain bumper mount                              | 7.95 |
| 77 S 873  | MMW3AE  | H    | Ebony base mount                                       | 6.95 |
| 77 S 874  | MMW3AFS | H    | Polished mount                                         | 6.95 |
| 77 S 872  | MMW7    | J    | Cadmium plated spring                                  | 9.95 |
| 78 S 154  | MMW7HC  | J    | Above, heavy duty                                      | 5.95 |
| 77 S 871  | MMW7SS  | J    | Heavy-duty stainless spring                            | 8.95 |
| 97 CU 155 | 100-96S |      | 96" stainless whip, 3/4" dia.                          | 5.14 |
| 97 CU 166 | 100-60S |      | 60" stainless whip, 3/4" dia.                          | 4.89 |
| 78 SX 156 | 88      |      | 36" lower section for all band antennas, 3/4" dia.     | 4.89 |
| 92 S 223  | 10-H    |      | Hold-down clamp                                        | 3.95 |
| 92 S 291  | 295     |      | "E-Z-Off" noise-free stainless steel antenna connector | 2.95 |



## TELREX BEAM ANTENNAS

TC-99 "TRI-BAND" ARRAY. A superb 3-element, 3-band beam for 10, 15 and 20 meters. Handles 2 1/2 kw P.E.P. and withstands 100-mph winds. Provides clean-cut unidirectional pattern and low SWR on all bands covered. Uses single transmission line with broadband "bazooka" feed. Separate optimum-spaced reflectors furnish high F/B ratio without degrading gain or impedance bandwidth. Has 8 db forward gain and 24 db F/B ratio on all 3 bands. 2 1/2" O.D. boom is 16 ft. long. Turning radius, approximately 18 ft. Longest element, approximately 29 feet. Elements and boom are of rugged aluminum. With hardware. Less transmission line. Wt., 58 lbs.  
99 CZ 964. NET. **159.50**

SINGLE-BAND BEAMS. All-aluminum beams for 10, 6 and 2 meters—designed to withstand high winds and icing. Precision-tuned. Employ coaxial half-wave baluns to match 52-ohm line. First numeral in type number indicates frequency band, second numeral, number of elements. F/B ratio and gain are given in db. L indicates boom length in feet. R is turning radius in feet. All except 2M-30 shipped truck or express only.

| Stock No. | Type     | F/B Gain | L    | R     | Lbs.   | Net   |
|-----------|----------|----------|------|-------|--------|-------|
| 91 CZ 994 | 10M-309B | 26       | 8.5  | 9     | 8 1/4  | 31.50 |
| 92 CZ 250 | 6M-309   | 26       | 8.8  | 6     | 6      | 17.25 |
| 97 CZ 890 | 6M-624B  | 24       | 15   | 24    | 12 1/2 | 28.50 |
| 92 S 219  | 2M-30    | 18       | 19.4 | 2 1/2 | 3      | 6.95  |
| 92 CZ 273 | 2M-609   | 22       | 12.7 | 8 1/2 | 5 1/4  | 12.50 |



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## Citizens Band Equipment

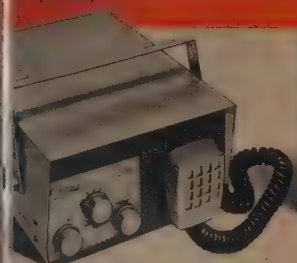
### WHAT IS CITIZENS RADIO?

Have your own 2-way radio communications system at a very low cost. The 11-meter band has been allocated for use by private citizens for business or personal communications. For the required license, simply fill out the form, supplied with your unit and mail it to the FCC—no examination is required. Any U.S. citizen, 18 years of age or older, may qualify.

### OPERATING RANGES

Effective ranges vary with antenna height and terrain. Ranges given can be expected with 5-watt (max. legal) input. \*Base (home) station.

| Use             | Range          |
|-----------------|----------------|
| Car to Base*    | Up to 12 miles |
| Base to Base*   | Up to 20 miles |
| Car to Car      | Up to 7 miles  |
| Boat-Boat-Shore | Up to 20 miles |



### MULTI-PRODUCTS "CITI-FONE"

CD-5/12. A versatile transceiver that taken anywhere. Provides depend-  
communication. Transmitter operates  
imum input power; receiver is super-  
sensitive high sensitivity and selec-  
Panel switch selects any 5 of the 22  
Band channels—both receiver and  
ter are crystal-controlled. Has ad-  
squelch and built-in noise limiter;  
e lighter plug for fast installation.

1/4x8x11". With push-to-talk mike,  
for one channel, power cords. Less  
a. For 110-120 v., 50-60 cycle AC or  
C. Shpg. wt., 12 lbs.  
908. NET.....134.50

CD-5/6. For 110 v. AC or 6 v. DC.  
907. NET.....134.50

CRYSTALS FOR "CITI-FONE" AND "MESSENGER." Precision ground transmitting and  
g crystals in hermetically sealed holders. Specify stock number, frequency or channel  
and whether for "Citi-fone" or "Messenger." Shpg. wt., 3 oz.

975. Transmitting Crystal. Specify frequency. NET.....2.50

976. Receiving Crystal. Specify frequency. NET.....2.50

### JOHNSON "MESSENGER"

MODEL 242-128. Compact transceiver for  
top Citizens Band performance. Receiver  
is highly sensitive and selective superhet;  
transmitter operates at maximum power  
input. Panel switch selects any of 5 crystal-  
controlled channels. Squelch keeps receiver  
quiet between messages; also has ANL. Has  
chrome-plated front panel, gray wrinkle-  
finish cabinet. With crystals for 1 channel,  
push-to-talk mike, power cords. Less anten-  
na. 5 3/4x7 1/4". For 110-120 v., 50-60 cycle  
AC or 12 v. DC. Shpg. wt., 16 lbs.  
77 SX 849. NET.....144.95

MODEL 242-127. For 110 v. AC or 6 v. DC.  
77 SX 892. NET.....144.95

78 S 191. MODEL 251-828. Universal Dash  
Mounting Kit. WT., 1 1/4 lbs. NET.....2.50

### VOCALINE "COMMAIRE"

MODEL ED-27M. Highly-efficient Citizens  
Band transceiver. Crystals can be plugged  
in for transmitting on any 4 of the 22 Citizens  
Band channels; includes convenient  
switch for selecting desired crystal. Dual-  
conversion, crystal-controlled superhet re-  
ceiver can be pre-tuned for fixed-frequency  
reception of any 4 channels. Transmitter  
operates at maximum input of 5 watts.  
Receiver features 1/10  $\mu$ v sensitivity; selec-  
tivity is  $\pm 5$  kc at 6 db points. Efficient  
transistorized power supply. With one crystal  
and mike. Black case with gray panel.  
Size, 5 1/4x9 1/4x8 3/4". Wt., 13 lbs.  
For operation from 110 VAC/12 VDC.

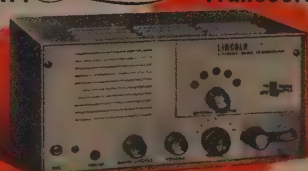
77 SX 351. List, \$189.50. NET.....151.60

For operation from 110 VAC/6 VDC.  
77 SX 350. List, \$189.50. NET.....151.60

EXTRA TRANSMITTING CRYSTALS FOR "COM-  
MAIRE." Precision, sealed crystals for use  
with above. Specify stock number and fre-  
quency or channel desired. 3 oz.  
99 SS 979. Specify frequency. NET.....2.50



## NEW! LINCOLN Transceiver



Exclusive Built-in Paging Amplifier

### MILCRAFTERS CB-3 CITIZENS BAND TRANSCIVER

le new transceiver with provision for 8 crystal-controlled  
it and receive channels. Sensitive receiver has 6-kc selectivity  
ces adjacent channel interference. Dual limiters reduce im-  
noises. 5-watt loop-neutralized transmitter has link-coupled  
—matches 25 to 75 ohm antennas. Series trap effectively  
a TVI. Self-contained dual power supply uses silicon diodes.  
me gray enamel cabinet. Size, 5 1/2x12 1/2x8". With push-to-  
talk and crystals for channel 11. For 110-120 v., 50-60 cycle  
v. DC. Shpg. wt., 12 1/2 lbs.  
935. NET.....149.50

CRYSTALS. Precision transmitting and receiving crystals  
metically sealed holders. For use with above transceiver.  
n stock number, frequency desired, and whether for transmitting  
ing. Special order only—allow three weeks for delivery.  
et, 3 oz.  
918. NET EACH.....2.50

### MODEL L-2700-A CB TRANSCIVER

Designed to equal the finest in Citizens Band equipment, this new  
unit offers superb mobile or base-station performance. Features  
superhet receiver with all-channel vernier tuning, adjustable noise  
limiter, 5-channel transmit-crystal selector switch, full 5-watt plate-  
modulated final amplifier, AVC, ferrite-tuned coils, and output to  
match 30-100 ohms. Paging switch and external speaker jack permit  
use as PA system. With chip-proof cabinet, 4 7/8x10 1/4x6 7/8", one  
transmitting crystal for channel 9, and ceramic microphone. For  
110-120 v., 60 cycle AC. Shpg. wt., 11 lbs.  
90 SX 145. NET.....59.95

78 S 163. 12-VDC Mobile Power Supply. For above. 4 lbs. NET 11.95  
78 S 164. 6-VDC Mobile Power Supply. For above. 4 lbs. NET 11.95

EXTRA TRANSMITTING CRYSTALS. For Lincoln transceiver, above.  
Specify channel and frequency. Shpg. wt., 3 oz.  
99 SS 969. NET EACH.....2.50

See Next Page For List of CB Channels and Frequencies

# Citizens Band Transceivers and Accessories

Ideal for Industrial Use

For Mobile or Fixed Station Use



Available  
In Kit or  
Wired Form



Designed for  
Continuous  
Heavy-Duty Use



## EICO TRANSCIVER KIT

MODEL 770. Provides easier, more effective Citizens band communications. Features front panel selection of up to 3 transmit crystals, sensitive tunable receiver. Receiver has RF stage for high sensitivity, automatic noise limiter, adjustable squelch control. Transmitter features press-to-talk mike, pi-network output, plate modulation with automatic limiting. Eight tubes and germanium diode provide reliable performance. Metering jack in cathode circuit for input power checking. With mounting bracket, mike, and 1 crystal. (Extra crystals at right, below.) 6x8 1/2x9". For 110-120 v., 50-60 cycle AC. Wt., 12 lbs.

90 SX 137. NET..... 69.95

90 SX 138. As above, wired. NET. 99.95

MODEL 772 KIT. For 120 VAC or 12 VDC.

90 SX 139. NET..... 79.95

90 SX 140. As above, wired. NET. 109.95

## POLY-COMM DELUXE TRANSCIVER

MODEL PC-11G. Deluxe, precision engineered transceiver for the serious Citizens Bander. Its features include: teflon-insulated wiring; optimum receiver sensitivity; adjustable vacuum-tube squelch; modulation indicator; full 5-watts audio output; separate mike preamp and oscillator; adjustable output matches 52-ohm or 72-ohm antennas; built-in 4" PM speaker; full 5-watts input. Has provision for 4 crystal-controlled transmit and receive channels. 11 tubes for exceptional performance. With crystals for one channel, AC/DC power cords, press-to-talk mike, mounting brackets. In weatherproof cadmium-plated steel chassis. Size, 7 1/2x11x5 1/2". For operation from 110-120 v., 50-60 cycle AC or 12 v. DC. Shpg. wt., 18 lbs.

77 SZ 958. NET..... 189.50

MODEL PC-11G-6. Similar to above but for 110-120 v. AC or 6 v. DC. Wt., 18 lbs.

77 SZ 959. NET..... 189.50

## KAAR "IMP" TRANSCIVER

MODEL TR-325. A versatile, rugged unit for 27-mc Citizens Band operation, mobile or fixed. Excellent for private and industrial use. Station permit can be readily obtained from the FCC by any U.S. citizen 18 years of age or older—application form included. Power input is 3 watts. Crystal-controlled receiver has adjustable squelch.

Operates on 6 or 12 v. DC, or 110-120 60 cycle AC. 12 tubes. Includes push-to-talk carbon mike, antenna, power cable. With 27.185; 27.205, 27.215 or 27.225 crystals—specify frequency; allow 30 days for delivery. Crystals for other Class D frequencies (26.965-27.225 mc) can be supplied at \$16.00 extra. 5 1/2x12 1/2x8 1/4". Wt., 22 lbs.

TR-325 WITH AC CABLE

77 SU 790. NET..... 320.00

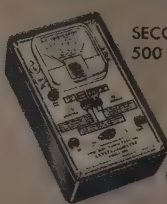
TR-325 WITH DC CABLE

77 SU 791. NET..... 328.00

## CITIZENS BAND ACCESSORIES



SECO 510



SECO 500



CESCO CB-52-C

SECO MODEL 510 TRANSMITTER TESTER. For fast servicing of Citizens band and other low-power communications equipment. Meter reads modulation percentage, RF output. Tests tuning stubs, transmission lines, connectors, etc. Provision for audio monitoring, scope connection. Size, 5 1/4x6 3/4 x2 1/4". Shpg. wt., 2 lbs.

87 F 306. NET..... 46.01

SECO MODEL 500 TEST SET. Ideal unit for servicing and installing CB and other crystal-controlled transmitters and receivers. Checks all types of crystals, provides RF test signal, to adjust squelch circuits, align receivers, etc. Has 2 transistors, 1 diode. With 15' remote cable, batteries. 6 1/4x3 1/2x2 1/4". Wt., 1 1/2 lbs.

87 F 305. NET..... 29.35

CESCO MODEL CB-52-C "TRANSCHECK". Tester for measuring power output and antenna efficiency of low-power transmitters. Meter shows watts output (0-5) and % power loss. Coax connectors, 4 1/8x2 1/8x1 1/2". 1 lb.

77 S 360. NET..... 19.95

77 S 359. CB-52-S. As above, but has auto-radio type connectors. NET..... 18.95

A CESCO PHANTOM ANTENNA LOAD. 52-ohm non-inductive 5 watt dummy antenna. For installation and maintenance of CB transmitters. UHF connector. 6 oz.

77 S 982. NET..... 1.49

B CESCO MODEL 3-30 GENERATOR NOISE FILTER. Eliminates generator whine. Tunable from 3 to 30 mc. Easily installed. With mtg. bracket. Wt., 5 oz.

77 S 983. NET..... 2.95

C HY-GAIN CPR CB MOBILE COUPLER. Series-resonant coupler switches antenna between CB and auto radios. Negligible loss. With cable, connectors. Wt., 7 oz.

77 S 963. NET..... 8.97

## NOISE SUPPRESSOR KIT

JOHNSON MODEL 250-801. (Not illus.) Effectively filters out ignition noises. Includes: 4 coaxial capacitors, 8 spark-plug suppressors, 1 distributor suppressor, 1 voltage-regulator suppressor, shielded cable and braid. For any make of car. With hardware and instructions. Shpg. wt., 2 lbs.

99 S 906. NET..... 13.50

## ACCESSORIES FOR TR-325 "IMP"

| Stock No. | Description                                      | Lbs.  |
|-----------|--------------------------------------------------|-------|
| 77 S 792  | Base-loaded whip. For mobile or fixed use.       | 1 1/2 |
| 77 S 793  | Ground-plane antenna. For optimum coverage.      | 5 28  |
| 77 S 794  | 25-ft. antenna extension cable. With connectors. | 3 12  |
| 77 S 795  | Auto roof antenna mount. With coax cable.        | 2 1/2 |
| 77 S 796  | AC power cable.                                  | 2 8   |
| 77 S 797  | DC power cable.                                  | 2 12  |
| 77 S 798  | Under-dash mount.                                | 2 1/2 |
| 77 S 799  | Shock-mount base. For heavy industrial use.      | 3 18  |

TR-426 INDUSTRIAL "IMP." As TR-325 but for 154.57 mc. With shock-mount base, mike, AC/DC cables. 24 lbs.

99 SU 009. NET..... 360.00



## 27-MC CRYSTAL

TYPE HC-6/U. Precision Citizens Band crystal. Match most Class D equipment. Sealed

in pins. 480" spacing, .050" dia. ±.000. tolerance meets FCC requirements. Specify Stock No. and frequency desired; Make Model of equipment, and whether for transmitting or receiving. Special Order only. allow three weeks for delivery. Wt., 3 oz.

## CHOOSE FROM THESE FREQUENCIES

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 1       | 26.965    | 12      | 27.105    |
| 2       | 26.975    | 13      | 27.115    |
| 3       | 26.985    | 14      | 27.125    |
| 4       | 27.005    | 15      | 27.135    |
| 5       | 27.015    | 16      | 27.145    |
| 6       | 27.025    | 17      | 27.155    |
| 7       | 27.035    | 18      | 27.165    |
| 8       | 27.055    | 19      | 27.185    |
| 9       | 27.065    | 20      | 27.205    |
| 10      | 27.075    | 21      | 27.215    |
| 11      | 27.085    | 22      | 27.225    |

99 SS 918. Specify frequency and use. 2



# Citizens Band Antennas and Mounts

## MOBILE ANTENNAS

### HY-GAIN

AR BASE-LOADED WHIP. Roof-top h mount and solderless connector. steel 50" whip, tapered. Single-antenn. Shpg. wt., 1 lb.

26. NET.....8.97

W-M TOP-LOADED STAINLESS STEEL es top loading to raise radiating of antenna and improve matching m coax. Whip is only 50" overall, ng higher mounting on vehicle. ene-coated coil capsule is fused to antenna. Extremely rugged; virtually proof. With chrome-plated body and coax fitting. Wt., 1 lb.

27. NET.....7.17

W WHIP. Above, less body mount. std. mounts. Wt., 12 oz.

28. NET.....5.37

WT-M TOP-LOADED TELESCOPING Similar to Model TLW-M whip out has telescoping stainless steel ome-plated brass whip sections. Tel- from 50" to 28" for easy garaging. rome-plated body mount and coax le. Shpg. wt., 1 lb.

29. NET.....7.17

WT WHIP. Same as Model TLW-M ing whip above, but less body mount. -24 stud for std. mts. 12 oz.

30. NET.....5.97

VS KIT. Strap bumper mount anten- Includes cadmium-plated double- spring, stainless 102" whip, and bumper mount with stainless strap. duty mount attaches easily to most mpers and is fully adjustable for alignment. Shpg. wt., 4 lbs.

31. NET.....12.96

-102 WHIP. Full-size quarter-wave one-piece stainless steel, tapered, d cadmium-plated base stud fits ants. Length, 102". 1 1/4 lbs.

41. NET.....4.35

### MARK MOBILE

NEW HW-11 "HELIOWHIP" SERIES. Fiberglass-molded continuously loaded whips. Compact size permits mounting on trunk lid, cowl, fender and hood of vehicle. Variable-pitch spiral conductor winds along fiberglass rod. Highly efficient HW-11-4 is for heavy-duty use; others are light-duty types for installations requiring extreme compactness. All fit standard or Type HWM molded mounts (below). Av. shpg. wt., 1 lb.

| Stock No. | Type      | Length    | NET  |
|-----------|-----------|-----------|------|
| 77 SX 822 | HW-11-4   | 4 ft.     | 9.95 |
| 90 SX 132 | HW-11-S4  | 4 ft.     | 7.20 |
| 90 SX 133 | HW-11-S3  | 3 ft.     | 7.20 |
| 90 SX 134 | HW-11-S18 | 1 1/2 ft. | 7.20 |

MOUNTING ACCESSORIES. For above. HWM-1 is heavy-duty fiberglass flat-surface mount. HWM-3 is light-duty molded mount with swivel for angle mtg. SA-1 swivel adapter allows full 90° swiveling. Wt., 1 lb.

| Stock No. | Type  | Use With        | NET  |
|-----------|-------|-----------------|------|
| 92 S 327  | HWM-1 | All HW-11 whips | 7.50 |
| 90 S 135  | HWM-3 | HW-11-S whips   | 4.25 |
| 90 S 122  | SA-1  | HWM-1 mount     | 3.00 |

### ANTENNA SPECIALISTS

MB-24 KIT. Complete double-chain bumper mounting antenna assembly. Includes: cadmium-plated spring, stainless 102" whip, 20' RG58/U coax with PL-259 and solder lugs, and whip hold-down clip. Wt., 7 lbs.

78 CZ 165. NET.....18.67

77 CZ 847. M-24. As above, with single-chain mount. Wt., 6 lbs. NET.....15.88

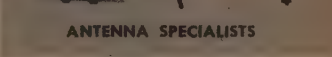
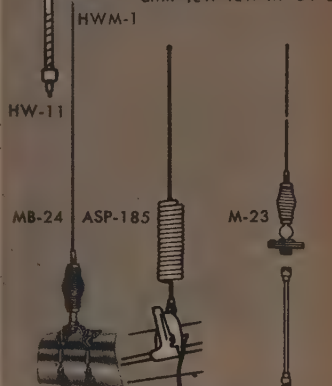
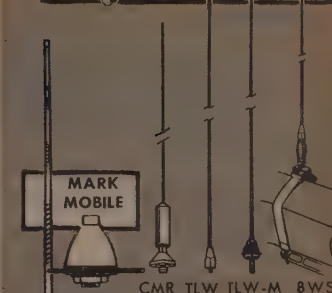
ASP-185 KIT. Gutter-clamp type 40" whip with 12' RG58/U, vinyl-covered loading coil. PL-259 adapter. Wt., 1 1/4 lbs.

77 SX 705. NET.....12.23

M-23 KIT. Complete kit for rear deck or side mtg. Includes: coaxial base, spring, 102" stainless whip, 20' RG58/U 2 PL-259s, mtg. pads, hardware. Wt., 5 1/2 lbs.

77 CZ 846. NET.....17.46

## Hy-gain



### ANTENNA SPECIALISTS

## BASE STATION ANTENNAS

### ANTENNA SPECIALISTS

GROUND PLANE. Popular omnidirectional antenna has solid aluminum 108" radials and radiator. Elements 50 54" lengths joined by threaded nuts. Radials bend to offer proper 50-ohm match. Fits 1" to 1 1/4" Accepts PL-259. Wt., 5 lbs.

845. NET.....15.63

PLATING SKIRT. For above. Mounts antenna to lower radiation angle g. structure effects. Fits 1-1 1/4" aluminum radials. 3 lbs.

169. NET.....11.14

COAXIAL ANTENNA. Ideal for fixed use. This 1/2-wave omnidirectional may be roof or side mounted inconspicuously on all types of buildings. Consists of a jointed aluminum vertical radiator to a 9" aluminum skirt. Skirt accepts two insulating spacers are provided for center and base of skirt. For 52-ohm. Bottom of top radiator element PL-259. Shpg. wt., 6 1/2 lbs.

167. No Money Down. NET.19.55

VERTICAL 3-ELEMENT BEAM. Provides unidirectional low-angle radiation -7 db forward gain over ground and 13 1/2 db front-to-back ratio. Boom elements are of heavy-walled aluminum. Height, 18"; boom length, 11". on 1" mast (not supplied). For 52-ohm. Accepts PL-259. 15 lbs.

168. No Money Down. NET.44.10

### HY-GAIN

CW TELESCOPING WHIP. Chrome-plated 45"-to-15" whip for transceiver mtg. Also may be used mobile with auto door mount. Has coil, swivel, PL-259. Wt., 1 lb.

77 S 850. NET.....5.97

SGP GROUND PLANE. Efficient, low-cost antenna. Radiator and radials, 3/4" aluminum tubing. Tuned for 52-ohm coax. Fits masts up to 1 1/2". Shpg. wt., 5 lbs.

78 SZ 171. NET.....16.17

113-B 3-ELEMENT BEAM. High-gain, for point-to-point work. May be mounted vertically or horizontally. Provides 9 db gain and 25 db front to back. 2" aluminum boom is 8' long; 16 1/2" elements. Pretuned for 50 ohms. With bracket. Less mast. 15 lbs.

77 CZ 858. No Money Down. NET.31.50

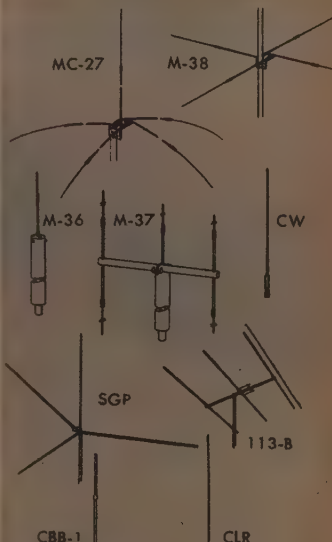
CLR COLINEAR GROUND PLANE. This 3/4-wave antenna doubles effectively radiated power. Matched for 52 ohms. Ht., 20"; 1 1/4" 3/4" aluminum tubing. 9' radials are 3/4" tubing. Takes to 1 1/2" mast. 15 lbs.

78 CZ 170. No Money Down. NET.29.97

### MARK MOBILE

NEW CBB-1 "BEACON" VERTICAL. Unique 1/2-wave base station antenna requiring no radials or skirts, but with 1 db gain over std. ground planes. Has 17' aluminum radiator, fiberglass mtg. section and 50-ohm matching stub. Excellent for chimney, roof or side mtg. Accepts PL-259. Wt., 8 lbs.

90 CZ 136. No Money Down. NET.19.95



### COAXIAL CABLE KITS AND ADAPTER

| No. | Type  | Description                                                      | Lbs.  | NET  |
|-----|-------|------------------------------------------------------------------|-------|------|
| 92  | CC-12 | Hy-Gain coax kit. 12' RG58/U; PL-259 one end, solder lugs other. | 1 1/2 | 3.45 |
| 93  | CC-25 | Hy-Gain coax kit. 25' RG58/U with PL-259 plug on both ends.      | 1 1/2 | 5.97 |
| 94  | CC-50 | Hy-Gain coax kit. 50' RG58/U with PL-259 plug on both ends.      | 1 1/2 | 9.45 |
| 95  | CPA   | Vanco coax adapter. Adapts PL-259 to std. auto antenna plug.     | 1/4   | 1.44 |



**NEW!**

### HAMMARLUND RDF-10

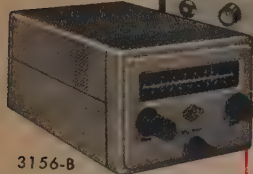
Transistorized radio direction finder. Covers broadcast band, 200-400 kc beacon band, and 1700-3400 kc marine band. Ten transistors provide 125 uv sensitivity on beacon and broadcast bands, 70 uv on marine band. Directional antenna controlled by panel knob; sensing antenna provides single sharp lobe. Antenna beam resolution is  $\pm 2\%$  of centerline to station. Requires no installation, operates anywhere. Self-contained battery power supply uses 6 inexpensive flashlight cells (less batteries). Size,  $8\frac{1}{2} \times 1 \times 9$ ". Shpg. wt., 12 lbs.

77 S 961. NET.....179.50

53 J 029. #1 Cell. Uses 6, 5 oz. EA., 14 c



Ground-to-Air



3156-B

Conalert III

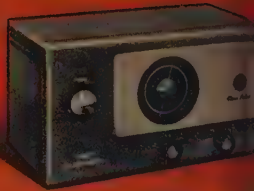


Air-to-Air



CRX-2, CRX-1

**hallicrafters**



S-94, S-95

## SPECIAL-PURPOSE RECEIVERS

### NEW CRX FM MONITOR RECEIVERS

MODEL CRX-2. 151-174 mc receiver designed to receive split-channel narrow band FM commercial and public service communications. Picks up police, fire, taxi, etc. Features triple conversion, 10 tube circuit. Switch selects dual vernier tuning or 2 crystal-controlled channels (less crystals).

Requires only 1.5 uv signal to open adjustable squelch. Has built-in speaker, terminals for external speaker. Transformer power supply uses silicon diodes. Gray steel cabinet with silver trim.  $5\frac{1}{2} \times 1\frac{1}{2} \times 8\frac{3}{4}$ ". For operation from 110-120 v., 60 cycle AC. Shpg. wt., 15 lbs.

77 SX 913. NET.....109.95

77 SX 914. Model CRX-1. As above, but for 30-50 mc. 9 tubes. NET.....99.95

### GONSET AIRCRAFT MONITOR

MODEL 3156-B. Listen to exciting aircraft communications with this deluxe VHF receiver. Monitors AM communications on the 108-135 mc band. Features include automatic gain control, variable squelch, AVC and efficient noise limiter.

Has built-in speaker, provision for external speaker, and muting contacts for use with transmitter. Transformer power supply. In attractive gray metal case. Size,  $4\frac{1}{2} \times 6\frac{1}{2} \times 10\frac{1}{2}$ ". With 8 tubes plus rectifier. For operation from 110-120 v., 50-60 cycle AC. Shpg. wt., 11 lbs.

78 SU 213. NET.....109.50

### "CIVIC PATROL" FM RECEIVERS

MODEL S-94. Covers 30-50 mc. Advanced circuit design assures minimum drift, signal-to-noise ratio and exceptional sensitivity. Wide-range antenna input impedance; low-noise, grounded-grid RF stage. Two IF stages. Adjustable relay-tuning squelch system silences audio until signal received—permits quiet standby operation. Built-in speaker; tip jacks for headphones. Have terminals for single-wire or twin-lead antennas (external antenna supplied), 8 tube plus selenium rectifier; gray steel cabinet.  $7\frac{1}{2} \times 12\frac{1}{2} \times 7\frac{1}{4}$ ". For 110-120 v., 50-60 cycle AC. Wt., 12 1/2 lbs.

98 SX 708. NET.....69.95

MODEL S-95. Above, for 152-173 mc.

98 SX 721. NET.....69.95

### KAAR CONALERT III MONITOR

MODEL 117R905 CONELRAD MONITOR. Fills FCC requirements for all radio stations. Perfect for police, hospitals, schools, industry, remote areas. Maintains 24-hour day "Silent Sentry" duty. Relays Civil Defense alerts and instructions, disaster information, and emergency weather warnings.

Has automatic visual or audible alarm. Features silent or audible monitoring, five set channels including 640 and 1240 kc optional crystal control, fail-safe external alarm. 8-tube circuit for extreme sensitive built-in 5" speaker, provisions for external speakers and external alarms. Comes in attractive, modern-styled cabinet. Size,  $7\frac{1}{2} \times 13\frac{1}{2} \times 9\frac{1}{2}$ ". For 110-120 v., 50-60 cycle AC. Shpg. wt., 27 lbs.

77 SU 915. NET.....149.00

## MONITOR RADIO



MR-10  
MR-33

Monitor Industry,  
Emergency Services

MODELS MR-10 AND MR-33. Deluxe FM receivers for monitoring communications in the 152-174 and 30-50 mc bands. Have adjustable squelch, 5" PM speaker, 4 uv sensitivity, 7 tubes; 6X4 rectifier.  $7\frac{7}{8} \times 11\frac{1}{4} \times 6\frac{1}{2}$ ". For 110-120 VAC. 18 lbs.

99 SJ 002. MR-10, 152-174 mc. NET 64.50

99 SX 003. MR-33, 30-50 mc. NET 64.50

MODELS M-40 AND M-160. For municipal and industrial services in 30-50 and 152-174 mc bands. Feature: 4" speaker; tuned RF stage; mobile use; built-in squelch.  $4\frac{1}{2} \times 6\frac{1}{2} \times 8\frac{3}{4}$ ". 12 v., DC only. 12 lbs.

77 S 745. M-40, 30-50 mc. NET.....99.50

77 S 746. M-160, 152-174 mc. NET 99.50



M-40, M-160



PR-35, PR-155



DR-200

MODEL PR-35. Moderately-priced FM receiver for dependable coverage of the 30-50 mc range. Features a temperature compensated superhet circuit for drift-free reception. Ratio detector circuit minimizes noise under "no signal" conditions. Provides 100 kc selectivity with 10 uv sensitivity, 4" PM speaker, 5 tubes plus rectifier. In plastic cabinet,  $6\frac{1}{2} \times 9\frac{1}{2} \times 5\frac{1}{2}$ ". For 110-120 v., 50-60 cycle AC, or DC. Shpg. wt., 6 lbs.

77 S 811. NET.....49.95

77 S 812. PR-155, 152-174 mc. NET 49.95

### RECEIVER ACCESSORIES

MODEL M-20 WINDOW MAST ANTENNA. Whip for DR-200 and MR-33 receivers (above) in 30-50 mc range, 96" telescoping brass assembly having 90° mounting adjustment for window sill or vertical surface. With mtg. bracket. 2 1/4 lbs.

99 SU 001. NET.....7.35

MODEL DRS-1 METAL-ENCLOSED 6" SPEAKER. For DR-200,  $8\frac{7}{8} \times 7\frac{1}{2} \times 7\frac{1}{2}$ ". 6 lbs.

97 SX 949. NET.....14.95

MODEL M-7A GROUND-PLANE ANTENNA. With 4 radials. For 152-174 mc. 1 lb.

78 SX 153. NET.....5.25



# Make ALLIED Your Tool Headquarters

COMPLETE SELECTION OF TOOLS AND SOLDERING EQUIPMENT

Make Allied your tool supply center for all of your electronic and home workshop needs. Get all the tools you need at lowest prices for biggest savings. You can equip your entire shop on our convenient Credit Fund Plan—see box at right.

**Weller**

## SOLDERING EQUIPMENT

8200K Kit

8250AK Kit

TOP BUYS IN  
SOLDERING KITS

## CREDIT FUND PLAN

- 50% More Buying Power
- No Money Down
- Up to 24 Months to Pay

There's no need to put off buying the tools you need now for lack of ready cash. Allied's Credit Fund Plan lets you buy anything listed in this catalog, including tools, for no money down. Minimum Fund account today! See page 360.

As Low As **\$5.19**

As Low As **\$9.77**

### 8200K DUAL-HEAT SOLDERING KIT

- Includes Gun, Solder-Aid Tool, Cleaning Brush and Solder
- Gun Has High/Low Heat Feature

Everything you need for fast, professional soldering. Includes: Weller Model 8200 U.L. approved, dual-heat solder gun; solder aid cleaning brush; coil of Kester "Reactive" solder. Gun has "triggermatic" control—instantly selects high (225 watt) or low (90 watt) heat. Saves time, provides convenience. Also has spotlight for illuminating work area. For 110-120 v., 60 AC. Wt., 2½ lbs. 280. List, \$7.95. EACH.....5.83

More, EACH.....5.19

### CONTROLLED-TEMPERATURE "MAGNASTAT" SOLDER IRONS



Two lightweight, advanced-design irons with "magnastat" sensing device in tip—automatically maintain correct soldering temperature under "peaks" or "lows". Never heat—save current when idling. Proper, constant heat transfer for maximum soldering performance. Have rubber absorber at shank of handle. Models 8202 and TC1202 include metal stand. 552 accomplishes temperature change ranging tips. Less tips and cords, below. Get one of each for your specific application. For 110-120 v., 60 cycle AC.

| No.    | Watts | Temperature | Wt. of Iron | List   | NET EA.   |
|--------|-------|-------------|-------------|--------|-----------|
| TC552  | 55    | 500°F-700°F | 3 oz.       | \$7.24 | 5.32 4.73 |
| TC652  | 75    | 700°F       | 3½ oz.      | 7.50   | 5.52 4.90 |
| TC1202 | 120   | 700°F       | 6 oz.       | 8.50   | 6.25 5.56 |

### REPLACEMENT TIPS FOR "MAGNASTAT" IRONS

Plum iron-plated copper. Av. wt., 3 oz.

| Type No. | Description                | Av. Wt. | NET EACH |
|----------|----------------------------|---------|----------|
| Type     | Description                | Av. Wt. | NET EACH |
| 5-D-1N   | ¼" Screwdriver 700° TC552  | 564     | 49c      |
| 5-D-1N   | ¼" Screwdriver 600° TC552  | 564     | 49c      |
| 5-D-1N   | ¼" Screwdriver 700° TC552  | 564     | 49c      |
| 5-D-1N   | ¼" Screwdriver 700° TC552  | 564     | 49c      |
| 6-D-1N   | ¼" Screwdriver 700° TC652  | 1.12    | 98c      |
| 12-G-1N  | ¼" Chisel 700° TC1202      | 1.49    | 1.31     |
| 12-E-1N  | ¼" Screwdriver 700° TC1202 | 1.49    | 1.31     |

### CORDS FOR "MAGNASTAT" IRONS

Standard cord is industrial type; 2-wire cord is standard type. With plugs. Av. wt., 5 oz.

| Type No. | Mfr. Type | Description             | List | NET EACH |
|----------|-----------|-------------------------|------|----------|
| 512      | C540      | 2-wire for TC552, TC652 | 2.00 | 73c      |
| 512      | C550      | 3-wire for TC552, TC652 | 2.10 | 1.47     |
| 677      | C560      | 2-wire for TC1202       | 2.00 | 73c      |
| 678      | C570      | 3-wire for TC1202       | 2.10 | 1.47     |

### 8250AK HEAVY-DUTY KIT—250 WATTS

Versatile, heavy-duty soldering kit: tops for home or shop use. Includes: Model 8250A 250-watt gun (with trigger switch control dual spotlights); 1 coil of acid-core solder for metal work (for electrical work, use resin core solder; see solder listing); 1 chisel-point tip; 1 smoothing tip; 1 cutting tip; 1 tip wrench. With metal case, 2½x11½x2½". For 110-120 v., 60 cycle AC. Shpg. wt., 7¼ lbs. 46 N 677. List, \$14.95. NET.....10.99

3 or More, EACH.....9.77

Heavy Duty Gun

MODEL D-550



- Dual Heat—200 and 275 Watts
- Dual Spotlights

NET

Tops for production line use, service shop, home workshop, etc. Has air-cooled transformer, pre-focused dual spotlights for illuminating work area. Trigger switch selects either 200 or 275-watt heat. U.L. Approved. For 110-120 v., 60 cycle AC. Wt., 4 lbs. 46 N 641. List, \$16.25. EACH.....11.71

3 or More, EACH.....10.53

MODEL 8250A. As above, but less dual-heat feature. Operates at 250 watts only. 46 N 678. List, \$12.95. EACH.....9.52

3 or More, EACH.....8.47

MODEL D-440. Medium-duty, dual-heat gun. Trigger switch for either 100 or 150-watt heat. Use with smoothing and cutting tips (in table below), for furniture repair, cutting tile, etc. Twin spotlights, U.L. Approved. For 110-120 v., 60 cycle AC. 3 lbs. 46 N 644. List, \$12.95. EACH.....9.52

3 or More, EACH.....8.47

MODEL 8100B. This quality 100-watt, single-heat gun has long-lasting tip, plus spotlight. U.L. Approved. For 110-120 v., 50-60 cycle AC. Shpg. wt., 2½ lbs. 50 N 465. List, \$6.44. EACH.....4.73

3 or More, Each.....4.42

### VERSATILE ACCESSORY TIPS AV. WT., 3 OZ.

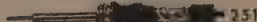
| Stock No. | Type | Descrip.  | For Models                          | EACH |
|-----------|------|-----------|-------------------------------------|------|
| 46 N 681  | 6110 | Cutting   | WS-100, WD-135, D-440, D-440, 8100  | 35c  |
| 46 N 682  | 6120 | Smoothing | WS-200, WD-250, S-500, D-550, 8250A |      |
| 46 N 683  | 6130 | Cutting   | WS-200, WD-250, S-500, D-550, 8250A |      |
| 46 N 684  | 6140 | Smoothing | D-550, 8250A                        |      |

### CHISEL-POINT TIPS

2 per Pkg. Av. shpg. wt. per pkg., 3 oz.

| Stock No. | Type | Use With Models                               | NET |
|-----------|------|-----------------------------------------------|-----|
| 46 N 574  | 7135 | WS-100, WD-135, S-400, D-440, 8100            | 25c |
| 46 N 573  | 7250 | WS-200, WD-250, S-500, D-550, 8250A           | 35c |
| 46 N 579  | 7300 | S-107, D-207. Not interchangeable with above. | 25c |
| 50 N 209  | 8125 | 8100B, 8200                                   | 35c |

## LENK PENCIL-TYPE SOLDERING IRON



MODEL 251. 25-WATT IRON. A feather-light pencil-type iron that's ideal for precision soldering—weighs only 2 ounces! Has ¼" diameter tip for access to tight spots; plastic handle with cooling fins; high-quality, stainless steel construction, 7½" long. For 110-120 v., AC-DC. Wt., ½ lb. 46 N 940. NET EACH.....4.29

MODEL 256. As above, but 40 watts. 46 N 941. NET EACH.....4.29

REPLACEMENT TIPS. Either fits both irons above. Shpg. wt., 3 oz. 46 N 942. ¼" tip. NET.....41c

46 N 946. ¼" tip. NET.....45c

## TURNER MODEL LP-99 PROPANE-GAS TORCH KIT

For light and heavy duty soldering, heating and burning. All-brass torch has heavy-duty valve with drag spring on knob for control of flame. Also includes: pencil-point burner for general applications; heavy-duty burner for big jobs; brass flame spreader for spreading flame to full two inches; copper, chisel-point solder tip; tank of fuel; spark lighter; and steel case, 3x10¼x6". Wt., 6½ lbs. 50 N 081. List, \$9.95. NET.....6.65

REPLACEMENT FUEL TANK. For above. Shpg. wt., 5 lbs. Two tanks per package. 50 N 082. NET PER PKG.....2.89

### WELLER GUN REPLACEMENT PARTS WT., 3 OZ.

| Stock No. | Type | Descrip. | Use With Models                 | NET  |
|-----------|------|----------|---------------------------------|------|
| 46 N 625  | 7325 | Tip nut. | D-440, S-400, 8100, 8200, 8100B | .15  |
| 46 N 630  | 7417 | Tip nut. | D-550, S-500, 8250A             | .15  |
| 46 N 626  | 7323 | Switch.  | All single-heat type.           | 1.22 |
| 46 N 627  | 7324 | Switch.  | All dual-heat type.             | 1.37 |

# UNGAR Soldering Equipment

## SOLDERING PENCILS



## COMPLETE SOLDERING PENCILS

• Ideal For All Miniature and Printed-Circuit Soldering  
Compact soldering pencils for printed circuitry and subminiature work. Include a Type 776 handle and cord (below) and one of the element-tips at right. Handles fit all elements and element-tips on this page. 23½-watt Type 536 heats its copper pyramid tip 650-700°F. Type 1236 is 37½ watts, heats silver-plated iron, pyramid tip 750-800°F. 47½-watt Type 4033 delivers 850-1000°F. to a long chisel tip of silver-plated, iron-clad copper. U.L. Approved. For 110-120 v., AC or DC. Av. shpg. wt., 6 oz.

| Stock No. | Description          | NET EACH<br>1-9 10-Up |
|-----------|----------------------|-----------------------|
| 50 N 302  | Has 536 Element-Tip  | 2.16 1.79             |
| 50 N 303  | Has 1236 Element-Tip | 2.35 1.96             |
| 50 N 305  | Has 4033 Element-Tip | 3.53 2.93             |

## TYPE 776 CORD AND HANDLE

Improved 776 handle for exacting industrial soldering requirements. Wide selection of easily changed thread-in element units and tiplets makes the 776 ideal for work on printed circuitry and sub-miniature systems. Durable, fatigue-free and lightweight. Spring socket holds element unit solidly in place. Has stainless steel heat deflector. "Soft-Touch" grip cork, cord protector and thermo-stabilized phenolic housing. Equipped with 6-ft. polyvinyl cord. 5" overall length. U.L. Approved. Less tip and element (see listings at right). 4 oz.

50 N 304. 1-9, NET EACH.....1.18  
10-Up, EACH.....97c

## SOLDERING IRON HOLDER



TYPE 8000. Makes soldering jobs safer and more efficient. Special guard protects operator against "hot-tip" burns. Can be fastened to top or side of a bench, to a wall, or even to underside of workbench. Angle is adjustable—may be positioned for maximum convenience. Shpg. wt., 8 oz.

47 N 024. NET.....1.57

## ANTI-SEIZE COMPOUND

TYPE 8001. (Not illus.) Special lubricant for soldering-tip threads. Prolongs life of tips and heating units by reducing seizure and corrosion. A valuable soldering aid that pays for itself. 2 oz. can. 3 oz.

47 N 025. NET EACH.....54c

## NO. 400 "KLEEN-TIP" KIT



Removes oxides and excess solder from tip. Insures better connections and longer tip life. Includes special sponge, phenolic tray and bench bracket. 2 oz.

50 N 421. 1-9, NET EACH.....98c

10-Up, EACH.....81c

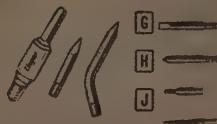
No. 455 ReFill Sponges. 2 oz.

50 N 422. 10-Up, EA. 33c 1-9, EA.....39c

## ELEMENTS AND TIPLETS



A B C  
ELEMENT TIPS



D E F K  
ELEMENT TIPS



L M N  
ELEMENT TIPS

WIRE STRIPPERS

## ELEMENT TIPS

Element-tips for Ungar 776 handle and the 260 pistol. Types 533, 536, 539, 1233 have copper tips; Types 1236 and 1239, silver-plated iron tips; Types 4036, 4033 and 4039 have iron-clad, silver-plated copper tips. Types 1233 and 4033 have a 1½x¼" tip; Types 1239, 4036 and 4039, 1½x½"; Types 536, 539 and 1236, ¼x¼"; Type 533, 1½x¾". U.L. Approved. For 110-120 v., AC-DC. Av. shpg. wt., 2 oz.

## 23½ WATTS—650-700° F. TIP TEMP.

| Stock No. | Mfr's Type | Fig. | Description | NET EACH<br>1-9 10-Up |
|-----------|------------|------|-------------|-----------------------|
|-----------|------------|------|-------------|-----------------------|

|          |     |   |             |         |
|----------|-----|---|-------------|---------|
| 50 N 400 | 533 | B | Long Chisel |         |
| 46 N 582 | 536 | A | Pyramid     | 98c 81c |
| 46 N 585 | 539 | C | Chisel      |         |

## 37½ WATTS—750-800° F. TIP TEMP.

|          |      |   |             |          |
|----------|------|---|-------------|----------|
| 50 N 401 | 1233 | B | Long Chisel |          |
| 46 N 592 | 1236 | A | Pyramid     | 1.18 98c |
| 46 N 593 | 1239 | C | Chisel      |          |

## 47½ WATTS—850-1000° F. TIP TEMP.

|          |      |   |             |           |
|----------|------|---|-------------|-----------|
| 46 N 647 | 4033 | B | Long Chisel |           |
| 46 N 648 | 4036 | A | Pyramid     | 2.35 1.95 |
| 46 N 649 | 4039 | C | Chisel      |           |

## ELEMENTS AND TIPLETS

D) THREAD-IN ELEMENTS. Thread into 776 handle, left; soldering tiplet threads into element. Fit all Ungar handles and 260 Pistol. 1235, 4035 and 4045 have nickel-plated steel shanks; 535, a nickel-plated iron shank. 535, 1235 and 4035 elements are for 300, PL300 series tiplets below. 4045 for 800 series tiplets, de-soldering tiplets below and at right. For 110-120 v. AC-DC. U.L. Approved. 2 oz.

| Stock No. | Mfr's Type | Tip Temp. | Watts | NET EA.<br>1-9 10-Up |
|-----------|------------|-----------|-------|----------------------|
| 46 N 605  | 535        | 600-650°F | 23½   | .98 .81              |
| 46 N 609  | 1235       | 700-750°F | 37½   | 1.18 .98             |
| 46 N 623  | 4035       | 800-850°F | 47½   | 1.18 .98             |
| 50 N 105  | 4045       | 800-850°F | 47½   | 2.35 1.95            |

PL300 PLATED TIPLETS. For sub-miniature work. For use with 535, 1235 and 4035 elements above—thread into end. Nickel-plated iron-clad copper. ¼" O.D. Tapered needle has ¼" point, microneedle is ⅜". PL331, PL333, PL338 have 1" unthreaded length; PL332, 1½", PL340, ¾". 2 oz.

| Stock No. | Mfr's Type | Fig. | Description    | NET EACH<br>1-9 10-Up |
|-----------|------------|------|----------------|-----------------------|
| 46 N 495  | PL331      | K    | Pencil         |                       |
| 46 N 496  | PL332      | F    | Offset Pencil  |                       |
| 46 N 497  | PL333      | G    | Micro Pencil   |                       |
| 50 N 101  | PL338      | J    | Tapered Needle | 47c 39c               |
| 50 N 409  | PL340      | H    | Micro-Needle   |                       |

300 UNPLATED TIPLETS. Same as PL300 series above, but unplated copper.

|          |     |   |               |         |
|----------|-----|---|---------------|---------|
| 46 N 606 | 331 | K | Pencil        |         |
| 46 N 607 | 332 | F | Offset Pencil | 16c 13c |
| 46 N 608 | 333 | G | Micro Pencil  |         |

PL-800 PLATED TIPLETS. For general-purpose work. Use with 4045 element above—thread into end. Silver-plated iron-clad copper. ¼" O.D. for high heat transfer. PL823 and PL824 have 1" unthreaded length; PL833, PL834, 1¼" unthreaded length. Av. shpg. wt., 2 oz.

|          |       |   |               |         |
|----------|-------|---|---------------|---------|
| 50 N 410 | PL823 | E | Pyramid       | 47c 39c |
| 50 N 411 | PL824 | G | Chisel        | 47c 39c |
| 50 N 412 | PL833 | F | Chisel        | 78c 65c |
| 50 N 413 | PL834 | F | Offset Chisel | 78c 65c |

## THREAD-ON-ELEMENT

## "MINI-TIPS"

## THREAD-ON ELEMENTS, "MINI-TIPS"

For high-speed industrial use. Element shanks silver-plated copper. For 110-120 v., AC-DC. U.L. Approved. PL tips silver-plated copper; others, unplated copper. Av. wt.; tips, 4 oz. per 10; elements, 2 oz.

## L ELEMENTS

| Stock No. | Mfr's Type | Tip Temp. | Watts | NET EACH<br>1-9 10-Up |
|-----------|------------|-----------|-------|-----------------------|
| 50 N 402  | 1237       | 750-800°F | 37½   | 1.18 .98              |
| 50 N 403  | 4037       | 850-900°F | 47½   | 2.35 1.95             |

## "MINI-TIPS"

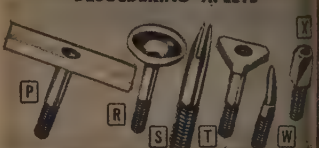
| Stock No. | Mfr's Type | Fig. | Tip Shape | L x Dia.  | NET EACH<br>1-9 10-Up |
|-----------|------------|------|-----------|-----------|-----------------------|
| 50 N 404  | PL111      | M    | Pencil    | 1-9 10-Up | 59c 49c               |
| 50 N 405  | PL113      | N    | Chisel    | 1-9 10-Up | 59c 49c               |
| 50 N 406  | 111        | M    | Pencil    | 1-9 10-Up | 20c 18c               |
| 50 N 407  | 113        | N    | Chisel    | 1-9 10-Up | 20c 18c               |

## NEW THERMO WIRE STRIPPERS

Attach to element tips 4033, 4036 and 4039 at left. Uses heat from element. 2 oz.

| Stock No. | Type | Description   | NET EACH |
|-----------|------|---------------|----------|
| 50 N 600  | 7951 | U-Strip       | 60c      |
| 50 N 601  | 7952 | Standard Hole | 60c      |
| 50 N 602  | 7953 | Hole-and-Slot | 60c      |

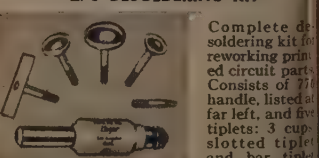
## DESOLDERING TIPPLETS



For printed circuit work. Thread into 4045 element. Cups melt solder on sockets—854 for 8, 9-pin; 855 for 7, 8-pin; 856 for 5-pin. Slotted unit for tabs and leads; offset for close-to-board work; bar is for straight line melting; triangle for electro-lytic. Drilled cube removes center pins of socket harness leads. Shpg. wt., 1 lb. per 10.

| Stock No. | Mfr's Type | Fig. | Description    | NET EACH<br>1-9 10-Up |
|-----------|------------|------|----------------|-----------------------|
| 50 N 414  | 854        | R    | 1" Cup         |                       |
| 50 N 415  | 855        | R    | ¾" Cup         |                       |
| 50 N 416  | 856        | R    | ¾" Slotted     | 59c 49c               |
| 50 N 108  | 857        | S    | Slotted        |                       |
| 50 N 417  | 858        | P    | Bar            |                       |
| 50 N 418  | 861        | T    | Triangle       |                       |
| 50 N 419  | 862        | X    | Offset Slotted | 59c 49c               |
| 50 N 420  | 863        | X    | Drilled Cube   |                       |

## 270 DESOLDERING KIT



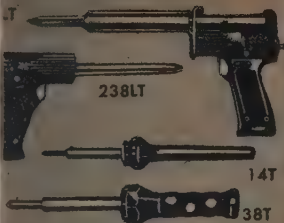
Complete desoldering kit for reworking printed circuit parts. Consists of 776 handle, listed at far left, and five tiplets: 3 cup, slotted tiplet and bar tiplet (described above). With sturdy metal case, 1½x7x4½". Shpg. wt., 1¼ lbs.

50 N 109. 1-5, NET EACH.....5.24

6-Up, EACH.....4.76



# ALL SOLDERING TOOLS



**SOLDERING GUNS**  
 "Trig-R-Heat" guns feature thermo-action and lightweight, transformer-less. Just squeeze trigger and the tip in seconds to proper temperature—natically providing correct wattage for the lightweight, balanced guns permit nuous, fatigue-proof operation. Narrow 6 1/2" barrel provides good reach into hard places. All have interchangeable ment. Black plastic housing. U.L. oved. For 110-120 volts, AC or DC.

212LT. Wattage range, 300-650. 1/4" clad tip. Built-in 7-watt spotlight con- d by a separate, rear-mounted switch. wt., 1 1/2 lbs. **11.07**  
 848. NET. **11.07**  
 214LTN. As above, but 150-400 watts; 1/4" tip. Shpg. wt., 1 1/4 lbs. **9.77**  
 889. NET. **9.77**

238LT. Designed for lighter soldering ations. Wattage range, 75-150. Em- 1/4" steel-clad tip. Built-in 7-watt ight illuminates work—ends soldering ne dark". Shpg. wt., 1 lb. **5.87**  
 853. NET. **5.87**  
 238T. Same as Model 238LT., above, ss spotlight. Shpg. wt., 1 lb. **5.51**  
 846. NET. **5.51**

**TIP-ELEMENT ASSEMBLIES**

Accessories for guns above, \*Fits 212- and 214LTN; †fits 238LT and 238T.

| No. | Watts    | Tip  | Wt.    | 1-5, EA. | 6-Up, EA. |
|-----|----------|------|--------|----------|-----------|
| 870 | *150-400 | 1/4" | 12 oz. | 3.75     | 3.45      |
| 897 | *300-650 | 1/4" | 1 lb.  | 5.87     | 5.39      |
| 997 | †75-150  | 1/4" | 10 oz. | 2.94     | 2.70      |

**SOLDERING IRONS**  
 lent for delicate work, yet built for action-line punishment. Thermostatic (of 14T and 38T) assures optimum high wattage for heavy soldering, low age for light jobs. 18HD is non-thera- tic; 14T and 18HD, pencil type. U.L. oved. Length: 18HD, 7"; 14T, 8"; 38T, 9". For 110-120 v., AC or DC.

| No. | Type | Watts     | Tip  | Wt.    | 1-5, EA. | 6-Up, EA. |
|-----|------|-----------|------|--------|----------|-----------|
| 894 | 18HD | 25        | 1/4" | 7 oz.  | 5.78     | 5.31      |
| 352 | 14T  | 40 to 125 | 1/4" | 7 oz.  | 5.78     | 5.31      |
| 354 | 38T  | 80 to 200 | 1/2" | 7 lbs. | 7.18     | 6.60      |

**REPLACEMENT TIPS**

Wey-Red tips for production line use.

| No. | Size | For   | Wt.   | 1-5, EA. | 6-Up, EA. |
|-----|------|-------|-------|----------|-----------|
| 374 | 1/4" | 18HD† | 2 oz. | .98      | .90       |
| 375 | 1/4" | 14T†  | 2 oz. | .98      | .90       |
| 376 | 1/4" | 38T†  | 3 oz. | 1.15     | 1.05      |
| 377 | 1/4" | 18HD  | 2 oz. | .98      | .90       |
| 378 | 1/4" | 14T   | 2 oz. | .25      | .23       |
| 379 | 1/4" | 38T   | 3 oz. | .39      | .36       |



863. Slender 40-watt soldering pencil cate work—great for printed circuits. Approved. For 110-130 v., AC or DC. long. With 3/16" copper tip, "Demon- element and stand. 6 oz. **1.98**  
 238. NET. **1.98**  
 596. Extra element. 2 oz. NET. **.55c**  
 597. Extra tip. 2 oz. NET. **.27c**

## Model 199K Gun Kit

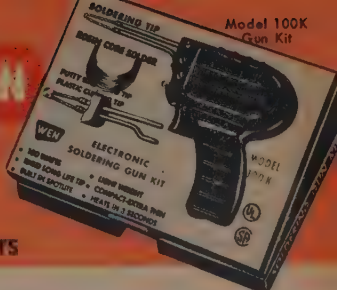
Includes:  
 3 Tips  
 Metal Case  
 Spotlight



## WEN SOLDERING GUN KITS

**199K SOLDERING GUN KIT**  
 Multi-purpose solder gun kit. Includes the Model 199 130-watt gun, 5-ft. roll of rosin-core solder, three tips for a wide variety of jobs, plus an attractively styled heavy-gauge metal kit box. Gun reaches full temperature in just 2 1/2 seconds. Tips are quickly interchangeable. Well balanced, pistol grip handle—single trigger controls heat and built-in spotlight. Tips include: Model 19-B-4 long-nosed standard tip for house-hold wiring; Model 19-F-33 flat iron tip for removing dents and repairing scratches in woodwork or furniture; Model 19-C-1 for cutting plastic, rubber or asphalt tile, etc. With metal case. For 110-120 v., 60 cycle AC. U.L. Approved. 4 lbs. **7.33**  
 46 N 319. List, \$9.95. NET. **6.51**  
 3 or More, EACH. **6.51**

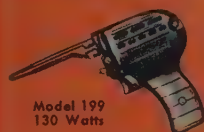
## Model 100K Gun Kit



**100K SOLDERING GUN KIT**  
 General purpose soldering gun kit featuring highly efficient transformer-type Model 100 gun. Develops full 100 watts heat in 2 1/2 seconds. With general purpose tip plus a plastic cutting tip, 110-120 v., 50-60 cycle AC. U.L. Approved. 2 1/2 lbs. **5.83**  
 50 N 191. List, \$7.95. NET. **5.19**  
 3 or More, EACH. **5.19**

**250K SOLDERING GUN KIT**  
 Versatile kit includes Model 250 gun that heats up in 5 seconds, three tips for a variety of uses, double end nickel plated wrench, 5-ft. roll of solder, and metal carrying case. Case, 8x9x3". U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 5 lbs. **11.72**  
 50 N 250. List, \$15.95. NET. **10.43**  
 3 or More, EACH. **10.43**

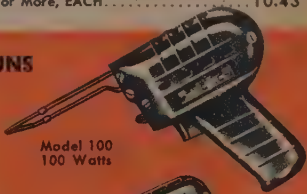
## FAMOUS WEN SOLDERING GUNS



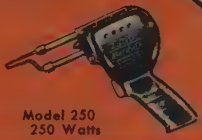
Model 199  
 130 Watts



Model 200  
 200 Watts



Model 100  
 100 Watts



Model 250  
 250 Watts

## MODEL 199-130 WATTS

Extremely popular, low-cost soldering gun. Ideal for production line use. Heats working hot in just 2 1/2 seconds. Efficiency comparable to guns of much higher wattage ratings. Has steel nose long-life tip. Spotlight focuses on work. Rated at 130 watts. Lightweight; only 1 1/2 lbs., for use over long periods of time without fatigue. Heat and shock resistant cherry-red plastic handle. Overall length less tip, 5". 6' cord. U.L. Approved. For 110-120 volts, 60 cycle AC. Shpg. wt., 2 1/2 lbs. **5.83**  
 46 N 358. List, \$7.95. NET. **6.51**  
 3 or More, EACH. **6.51**

## REPLACEMENT TIPS. Wt., 2 oz.

| No.      | Type   | Description         | NET |
|----------|--------|---------------------|-----|
| 46 N 359 | 19-B-4 | Standard Tip        | 35¢ |
| 46 N 328 | 19-C-1 | Plastic Cutting Tip | 42¢ |

## MODEL 288-200 WATTS

Economy-priced, heavy-duty soldering gun. Lightweight and balanced for long, fatigue-free use this 200-watt gun is ideal for all types of heavy soldering work. Specially designed tip is also excellent for a wide variety of delicate jobs—gets into hard-to-reach places. Built-in spotlight goes on and off with gun.  
 Case is constructed of high-impact, ebony-black plastic. Overall length with tip, 9 1/2". Underwriter's Approved. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 3 1/2 lbs. **7.33**  
 46 N 324. List, \$9.95. NET. **6.51**  
 3 or More, EACH. **6.51**  
 Extra tip. Shpg. wt., 3 oz. **42c**  
 46 N 331. NET. **42c**

## MODEL 100 BUDGET GUN

Highly efficient 100-watt soldering gun reaches operating temperature in 2 1/2 seconds. Features a built-in spotlight, trigger switch, and extra-long, steel-nosed tip. Black plastic housing. Overall length with tip, 8"; less tip, 4 1/4". U.L. Approved. For operation from 110-120 volt, 50-60 cycle AC. Shpg. wt., 2 lbs. **4.66**  
 50 N 025. List, \$5.95. NET. **4.37**  
 3 or More, EACH. **4.37**

## MODEL 250-250 WATTS

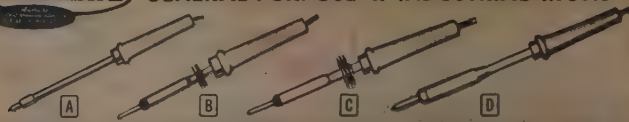
Heavy-duty 250-watt soldering gun at low cost. Heats in 3 seconds. Excellent for radio-TV repair work—plenty of heat for heavy jobs. Straight-line design and built-in spotlight. Nickel-plated corrosion-resistant tip. U.L. approved. For operation from 110-120 v., 60 cycle AC. Length, 6 1/2". Shpg. wt., 4 lbs. **9.52**  
 46 N 325. List, \$12.95. NET. **8.47**  
 3 or More, EACH. **8.47**

## REPLACEMENT TIPS. Wt. 2 oz.

| Stock No. | Mfr's Type | Description         | NET EA. |
|-----------|------------|---------------------|---------|
| 46 N 326  | 25-A-4     | Standard Tip        | 17¢     |
| 46 N 327  | 25-X-20    | Feraloy Tip         | 35¢     |
| 46 N 330  | 25-C-1     | Plastic Cutting Tip | 35¢     |

## U-A FINE-SOLDERING TIP KIT

Low-cost tip kit designed for soldering and desoldering work. Saves time—easy to use. Includes universal fine soldering radio tip for Wen Models 100, 199, 288, and 250; 2 couplers and five 10" extensions for reaching remote spots. Shpg. wt., 8 oz. **53c**  
 50 N 192. NET. **47c**  
 3 or More, EACH. **47c**



**ECONOMY MODELS**

**A** MODEL 5A—40 WATTS. Light-duty soldering iron. Length, 10". With  $\frac{3}{16}$ " screw-on pencil tip and stand. For 110-120 volts, AC-DC operation. Wt., 10 oz.  
46 N 505. List, \$2.00. NET.....1.33

**A** MODEL 315—60 WATTS. For light and medium-duty applications. With screw-on type  $\frac{3}{16}$ " pyramid tip and stand. For 110-120 v., AC-DC. Shpg. wt., 12 oz.  
46 N 521. List, \$2.80. NET.....1.87

**MODEL 360 "PEE-WEE"—35 WATTS**  
**B** Iron for delicate work. Supplied with  $\frac{3}{16}$ " pyramid tip and stand. "Goodgrip" handle; heat radiating baffles,  $\frac{7}{16}$ " long. For operation from 110-120 volts, AC or DC. Shpg. wt., 8 oz.  
46 N 532. List, \$4.75. NET.....3.17

**MODEL 400 INDUSTRIAL—60 WATTS**  
**C** Continuous-duty iron for close work. 9" long, with  $\frac{1}{4}$ " tip. Baffle plates radiate heat away from handle. Supplied with 6-ft. heater cord, rubber plug and stand. For 110-120 v., AC-DC. Shpg. wt., 14 oz.  
46 N 538. List, \$6.00. NET.....4.00

**MODEL 325 STANDARD—100 WATTS**

**D** General-purpose soldering iron. Ideal for a wide range of applications. Overall length 13".  $\frac{3}{4}$ " adjustable pyramid tip. Supplied with stand. For operation from 110-120 volts, AC-DC. Shpg. wt.,  $\frac{1}{4}$  lbs.  
46 N 523. List, \$6.50. NET.....4.33

**REPLACEMENT TIPS**

Copper tips. \*Indicates set of two tips.

| Stock No. | Description                      | Oz.                | For iron | NET |
|-----------|----------------------------------|--------------------|----------|-----|
| 46 N 535  | $\frac{3}{16}$ " pyramid         | 225, 325, 326, 625 |          | 50c |
| 46 N 514  | $\frac{3}{16}$ " pyramid         | 6                  | 315      | 60c |
| 46 N 533  | $\frac{3}{16}$ " pyramid*        | 2                  | 360      | 20c |
| 46 N 513  | $\frac{3}{16}$ " pyramid         | 2                  | 400      | 33c |
| 46 N 547  | $\frac{1}{4}$ " straight pencil* | 2                  | 350      | 17c |
| 46 N 548  | $\frac{1}{4}$ " pencil*          | 2                  | 350      | 17c |



**TEMPERATURE CONTROLS**

Keeps temperature constant for delicate work. Variable, 300-600° F. For 110-120 v., AC-DC.

| Stock No. | Model | For iron | Oz. | List   | NET  |
|-----------|-------|----------|-----|--------|------|
| 50 N 221  | 40    | 40-watt  | 12  | \$8.00 | 4.80 |
| 50 N 222  | 60    | 60-watt  | 12  | \$9.00 | 5.40 |

**HEAT-REGULATING STAND AND SOLDER POTS**



475

200

100

SP-250

SP-200

**AMERICAN BEAUTY "475"**  
Thermostatically controlled soldering iron rest. Maintains iron temperature; eliminates tip burning and necessity for frequent re-tinning. Perfect for production line and service bench. Plastic body. Soldering iron

**TEMPERATURE REGULATING STAND**  
cradle of copper alloy. Has heater cord and plug-in receptacle. For use with soldering irons from 80 to 660 watts input, up to 240 volts, AC only. Shpg. wt.,  $\frac{2}{3}$  lbs.  
46 N 658. NET.....5.75

**SHOPMATE SOLDER POTS**

**MODEL 200—300 WATTS.** Heavy-duty production type. Excellent for dip soldering.  $2\frac{1}{2}$ "x1 $\frac{1}{2}$ " deep well holds 2 lbs. solder. With detachable cord. Has protective extension lip. For 110-120 v., AC-DC. 6 lbs.  
46 N 555. List, \$12.00. NET.....7.20

**MODEL 100—150 WATTS.** Ideal for general light-duty work.  $1\frac{1}{2}$ "x1" deep well holds 1 lb. of solder. With cord. For 110-120 v., AC or DC. Shpg. wt., 3 lbs.  
46 N 556. List, \$9.50. NET.....5.70

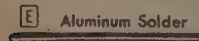
**LECTROHM SOLDER POTS**

For tinning wires, leads, etc. Sizes—SP-200:  $2\frac{1}{4}$ "x2 $\frac{1}{4}$ ".  $\frac{7}{16}$ " cup depth; SP-250:  $3\frac{1}{4}$ "x2".  $1\frac{1}{4}$ " depth. With cord. For 110v., AC-DC.  
**Stock No. Type Capac. Watts Wt. NET**  
46 N 880 SP-200  $1\frac{1}{4}$  lbs. 200  $\frac{3}{4}$  lbs. 4.98  
46 N 881 SP-250 2 lbs. 250  $\frac{3}{4}$  lbs. 4.98

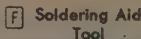
**REPLACEMENT NICKEL-CHROME ELEMENTS.**

Shpg. wt. 3 oz.  
46 N 882. Type A. For SP-200. NET. 1.42  
46 N 883. Type B. For SP-250. NET. 1.42

**ACCESSORIES**



Aluminum Solder



Soldering Aid Tool



Solder Dispenser

**CHEMALLOY ALUMINUM SOLDER**

**E** Easy-to-use solder joins any aluminum, copper, and brass surfaces without need for metal cleaning or special fluxes. Use with very thin-gauge metal without burning. Cures any corrosion due to electrical effects; allows use as dry-bearing metal, for castings, deposits, etc. Use 500° solder for thin-gauge metal, 800° for heavy work. Also use on coatings, deposits, etc.

| Stock No. | Unit         | Temp. | Wt.                | NET  |
|-----------|--------------|-------|--------------------|------|
| 50 N 083  | 2-2 oz. bars | 500°  | 6 oz.              | .59  |
| 50 N 314  | 2-2 oz. bars | 600°  | 6 oz.              | .59  |
| 50 N 085  | 2-2 oz. bars | 800°  | 6 oz.              | .59  |
| 50 N 086  | 1-lb. bulk   | 500°  | $\frac{1}{4}$ lbs. | 1.39 |
| 50 N 087  | 5-lb. bulk   | 500°  | $\frac{5}{4}$ lbs. | 5.95 |
| 50 N 315  | 1-lb. bulk   | 800°  | $\frac{1}{4}$ lbs. | 1.49 |

**G-C SOLDERING AID TOOL**

**F** MODEL G-C 9088. A "must" for faster, easier soldering. One end has a stiff wire brush for cleaning wire and terminals before soldering; other end is specially shaped to hold wires securely during soldering. Solder will not stick to chrome-plated, pre-end of tool. Length, 8". Wt., 4 oz.  
42 N 001. NET.....98c

**KORMAT SOLDER WIRE DISPENSER**

**G** Increases production efficiency—avoid finger burns and other hazards. Slide button feeds all solder sizes from .028" to .074" through probe. Reloads in 30 seconds. 7" alloy handle. Shpg. wt., 12 oz.  
50 N 459. NET EACH.....4.49



**"RESIN FIVE" CORE SOLDER**

Features "Resin 5" flux—non-corrosive and non-conductive. Handy coil  $\frac{1}{16}$ " dia.; spool  $\frac{1}{2}$ " dia. 40% tin and 60% lead. 70% tin 40% lead, re-tched printed circuits.

commended for efficient soldering of copper

| Stock No. | Size             | Spool Wt. | Shpg. Wt.          | NET |
|-----------|------------------|-----------|--------------------|-----|
| 50 N 310  | $\frac{1}{16}$ " | 5 lbs.    | $\frac{3}{4}$ lbs. | 7.4 |
| 46 N 916  | $\frac{1}{16}$ " | 1 lb.     | $\frac{1}{4}$ lbs. | 1.1 |
| 46 N 900  | $\frac{1}{16}$ " | 1 oz.     | 3 oz.              | 7   |
| 50 N 311  | $\frac{1}{16}$ " | 5 lbs.    | $\frac{3}{4}$ lbs. | 7   |

**PRINTED-CIRCUIT SOLDER 60/40 TYPE.** 60% tin; 40% lead.  $\frac{1}{16}$ " dia.  $1\frac{3}{4}$  lbs.  
46 N 926. 1-lb. Spool. NET.....1.52

**ROSIN-CORE SOLDER**

Plastic rosin-filled.  $\frac{3}{16}$ " recommended for general-purpose work;  $\frac{1}{16}$ " for delicate work 40% tin; 60% lead, except "50-50."

| Stock No. | Size             | Spool Wt. | Shpg. Wt.          | NET |
|-----------|------------------|-----------|--------------------|-----|
| 46 N 901  | $\frac{3}{16}$ " | 1 lb.     | $\frac{1}{4}$ lbs. | 1.1 |
| 46 N 902  | $\frac{3}{16}$ " | 5 lbs.    | $\frac{3}{4}$ lbs. | 5.4 |
| 46 N 910  | $\frac{3}{16}$ " | 1 lb.     | $\frac{1}{4}$ lbs. | 1.1 |
| 46 N 931  | $\frac{3}{16}$ " | 5 lbs.    | $\frac{3}{4}$ lbs. | 5.3 |
| 46 N 919  | $\frac{3}{16}$ " | 1 lb.     | $\frac{1}{4}$ lbs. | 1.1 |
| 46 N 939  | $\frac{3}{16}$ " | 5 lbs.    | $\frac{3}{4}$ lbs. | 6.6 |

**ACID-CORE SOLDER**

For general soldering other than electric connections.  $\frac{1}{4}$ " dia. Acid flux saves time makes a lasting job. 40% tin and 60% lead.  
46 N 905. 1-oz. Handy Coil. 3 oz. NET 1.70  
46 N 906. 1-lb. Spool.  $1\frac{3}{4}$  lbs. NET.....1.70

**SOLDERING PASTE**

Distributes flux for easier, non-corrosive soldering. 2 oz. cans. Shpg. wt., 5 oz.  
46 N 915. 10-Up, EA. 13c 1-9, EA.....15c

**KESTER TINNING BLOCK**

Cleans and tins soldering irons quickly. Entirely crumble-free and non-corrosive. Shpg. wt. 1 $\frac{1}{2}$  lbs.  
46 N 922. NET.....65c



**ERSIN MULTICORE SOLDER**

5-core solder for fast soldering. Non-corrosive. 50% tin flux. 40% tin, 60% lead. In 14-gauge (.080") 16-gauge (.064") and 11-gauge (.048") 1-lb. spools. From England. Shpg. wt., per spool  $\frac{1}{4}$  lbs.

| Stock No. | Gauge | NET PER SPOOL |       |
|-----------|-------|---------------|-------|
|           |       | 1-27          | 28-Up |
| 46 N 995  | 14    | 1.29          | 1.16  |
| 46 N 991  | 16    | 1.33          | 1.19  |
| 50 N 313  | 18    | 1.35          | 1.21  |

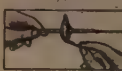
**SERVICE PAK.** 18-gauge, 60/40 5-core sold. Shpg. wt., 12 oz.  
46 N 997. NET.....48c

**ERSIN "SAVBIT" SOLDER**

High-strength copper-tin-lead alloy solder. Has greater strength than tin-lead alloys.

| Stock No. | Gauge | Spool Wt. | Shpg. Wt.          | NET   |
|-----------|-------|-----------|--------------------|-------|
| 50 N 121  | 14    | 1 lb.     | $\frac{1}{4}$ lbs. | 1.64  |
| 50 N 122  | 14    | 7 lbs.    | $\frac{3}{4}$ lbs. | 10.90 |
| 50 N 123  | 16    | 1 lb.     | $\frac{1}{4}$ lbs. | 1.62  |
| 50 N 124  | 16    | 7 lbs.    | $\frac{3}{4}$ lbs. | 11.12 |
| 47 N 056  | 18    | 1 lb.     | $\frac{1}{4}$ lbs. | 1.66  |
| 47 N 057  | 20    | 1 lb.     | $\frac{1}{4}$ lbs. | 1.82  |

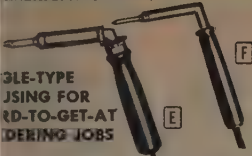
**BLONDE TAPE SOLDER**



Tape of 40/60 tin-lead solder with rosin flux. Just use a match for rapid soldering. Tape is wrapped around wires to be joined. Heat is applied. Flux is activated at 190° and dissipates a 210°—forms a bond that will not corrode. Has same protective qualities as bar or spool solder. 28" long—enough for 100 connections. Shpg. wt., 2 oz.  
46 N 999. List, 25c. NET.....17c



## AMERICAN BEAUTY



**ANGLE-TYPE IRONS FOR HARD-TO-GET-AT SOLDERING JOBS**

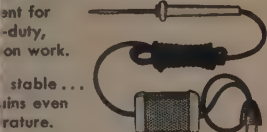
MODEL 3138-A. Angled version of Model 3138 (at right), 1 1/4 lb. N 605. NET..... 8.60

MODEL 3128-A. Angled version of Model 3128 (at right), 1 lb. N-603. NET..... 5.90

N 604. Type 9272A. Replacement element for 3138-A. 7 oz. NET.... 3.48

N 606. Type 9273F. Replacement element for 3128-A. 7 oz. NET.... 3.08

## AMERICAN BEAUTY T-30 SUPER-HOT SOLDERING IRON



ent for duty, on work.

stable... ins even ture.

ced-design, 30-watt transformer-type iron features exclusive "Red Hot Split-collet in handle for easy change elements. With pre-tinned, long-life 1. pyramid tip, 7-ft. cord, 12 v. trans. in cord isolates iron from AC. For 0 v., 50-60 cycle AC. 2 lbs.

050. 6-Up. EA. 13.65 1-5, EA. 14.30

EMENT TIPS. For above, WT. 2 oz.

| No. | Tip-Element | 1-11, EA. | 12-Up, EA. |
|-----|-------------|-----------|------------|
| 054 | 1/4" Pencil |           |            |
| 055 | 1/4" Chisel |           |            |
| 052 | 1/4" Pencil | 2.50      | 2.00       |
| 053 | 1/4" Chisel |           |            |

## KWIK-HEAT" IRONS



**150 WATT THERMOSTAT CONTROLLED SOLDERING IRON**

MODEL 200. Small, lightweight production tool for close, tight soldering on electronic components and printed circuits. Up to full operating temperature in 80 seconds. Built-in thermostat maintains correct temperature. Core assembly and outer shell are corrosion resistant stainless steel. Length, 12 3/4". With tip. For 110-125 volts, 60 cycle AC. wt., 12 oz.

634. List, \$9.95. NET..... 6.97

More, EACH..... 6.63

**225 WATT THERMOSTAT CONTROLLED SOLDERING IRON**

MODEL 300. As above, but 225 watts for heavy-duty use, and industrial applications. Heats in 90 seconds, 13" long. With nickel tip. Shpg. wt., 1 lb.

560. List, \$14.95. NET..... 10.47

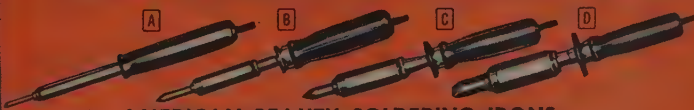
More, EACH..... 9.96

**TIPS FOR MODELS 200, 300**

Model 200. Av. shpg. wt., 5 oz.

| No. Fig. | Description            | NET  |
|----------|------------------------|------|
| 561 J    | Small taper point      | 1.26 |
| 562 K    | Gradual taper point    | 1.30 |
| 565 L    | Heavy, with chisel tip | 1.37 |
| 566 M    | 1-oz. Melting pot      | 1.30 |
| 633      | Chisel point*          | .77  |

# Soldering Irons For Every Electronic Need



## AMERICAN BEAUTY SOLDERING IRONS

Fit any soldering application. Special iron-plated tips, available for all models, greatly reduce pitting and redressing. Casing and body are one-piece seamless steel. Lightweight, shatterproof rubberoid-coated handles. 6-ft. cords. All are U. L. Approved.

**MODEL 3128—60 WATTS**

[A] Designed for light work. Includes 1/4" copper tip. Handy for hard-to-get-at spots. With stand. Length, 12 3/4". For 110-120 volts, AC or DC. Shpg. wt., 1 lb.

46 N 674. NET..... 4.70

6 or More, EACH..... 4.45

**REPLACEMENT TIPS AND ELEMENT**

For above. Type 9272 has mica insulation; with spring, tube and terminal assembly.

| Stock No. | Type    | Description     | Oz. | NET  |
|-----------|---------|-----------------|-----|------|
| 46 N 675  | 3728    | Copper-tip      | 3   | .33  |
| 46 N 820  | 3728-IP | Iron-plated tip | 3   | .75  |
| 46 N 670  | 9272    | Element         | 6   | 2.55 |

**MODEL 3138—100 WATTS**

[B] An excellent general purpose iron. 3/8" dia. copper tip. Chrome plated metal parts. Has cooling baffle; stand, 12 3/4". For 110-120 v., AC-DC. 2 1/4 lbs.

46 N 655. NET..... 7.15

6 or More, EACH..... 6.80

**REPLACEMENT TIPS AND ELEMENT**

For Model 3138 iron.

| Stock No. | Type    | Description     | Oz. | NET  |
|-----------|---------|-----------------|-----|------|
| 46 N 656  | 3738    | Copper tip      | 6   | .46  |
| 46 N 821  | 3738-IP | Iron-plated tip | 6   | .86  |
| 46 N 666  | 9273    | Element         | 16  | 2.90 |

**MODEL 3158—200 WATTS**

[C] For medium-heavy factory and production work. 3/8" diameter copper tip. With stand. Length, 13 3/4". For 110-120 volts AC or DC. Shpg. wt., 3 lbs.

46 N 650. NET..... 8.60

6 or More, EACH..... 8.20

**REPLACEMENT TIPS AND ELEMENT**

For above. Tips are 3/8". Element is chrome-nickel wire on mica insulated steel rod.

| Stock No. | Type    | Description     | Lbs.  | NET  |
|-----------|---------|-----------------|-------|------|
| 46 N 652  | 3758    | Copper tip      | 1     | 1.08 |
| 46 N 822  | 3758-IP | Iron-plated tip | 1     | 1.71 |
| 46 N 665  | 9273    | Element         | 1 1/4 | 4.10 |

**MODEL 3178—300 WATTS**

[D] Ideal for service and heavy-duty production work. Length 14 3/8"; tip dia., 7/8"; net wt., 2 1/2 lbs. With cord, stand and tip. For 110-120 v., AC or DC. Wt., 4 lbs.

46 N 671. NET..... 11.45

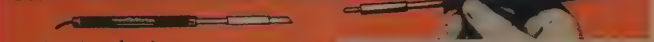
6 or More, EACH..... 10.90

**REPLACEMENT TIPS AND ELEMENT**

For Model 3178 iron.

| Stock No. | Type    | Description     | Lbs.  | NET  |
|-----------|---------|-----------------|-------|------|
| 46 N 672  | 3778    | Copper tip      | 2     | 2.15 |
| 46 N 823  | 3778-IP | Iron-plated Tip | 2     | 2.78 |
| 46 N 673  | 9277    | Element         | 1 1/2 | 5.45 |

## ORYX MINIATURE INDUSTRIAL IRONS



**MODEL 115-100 MINIATURE IRON**

Heats to 672 F. in 70 sec. Interchangeable 3/8" tip. Transformer not required. For 110-120 v., 50-60 cycle AC. 6 oz.

50 N 506. NET..... 6.81

12-Up, EACH..... 6.32

**MODEL 115-15W.** As above, but 15 watts. 3/8" tip reaches 717 F. in 50 sec.

50 N 507. NET..... 6.81

12-Up, EACH..... 6.32

**REPLACEMENT TIPS**

Tips made of special copper alloy, nickel plated. \*Pure nickel end. Av. wt., 2 oz.

| Stock No. | Fig. | For Model | Dia. | EACH |
|-----------|------|-----------|------|------|
| 46 N 831  | N    | 6A, 9-6   | 1/8" | .49  |
| 46 N 832  | P    | 6A, 9-6   | 1/8" | .49  |
| 46 N 844  | R    | 12-6      | 1/8" | .49  |
| 46 N 845  | S*   | 11        | 1/8" | 1.76 |
| 46 N 877  | S*   | 11        | 1/8" | 1.76 |
| 46 N 898  | T    | 18        | 1/8" | 1.22 |
| 46 N 899  | *P   | 18, 25    | 1/8" | 1.91 |
| 46 N 912  | W    | 25        | 1/8" | 2.30 |

**46 N 923. Step-Down Transformer.** For above, except Model 25. Has holder for iron; AC cord. Rated 18 watts. 2 1/4 x 2 1/4". For 110-120 v., 60 cycle AC. 2 lbs. NET... 5.45

## ANTEX C-115 PRECISION MINIATURE SOLDERING IRON

REPLACEMENT TIPS. For use with Antex C-115 iron, at left\*Special heavy-duty type. Wt. 2 oz.

**WARRANTY**

• No Transformer Required

• Constant 626 F. Temperature

• Ideal for Miniaturized Circuitry

Low-cost, feather-light iron for precise soldering. Weighs less than 1 oz. Heats up in just 45 seconds. 50 megohm insulation between element and tip for work around semi-conductors—no danger of current damage. Perfectly balanced for hours of fatigue-free use. Requires 3-wire plug below. Length 6 1/2". Made in England. Wt., 3 oz.

50 N 427. NET EACH..... 4.75

6 or More, EACH..... 4.26

**50 N 316. EAGLE MODEL 209 3-WIRE AC PLUG.** For above. Shpg. wt., 3 oz.

NET EACH..... 54c

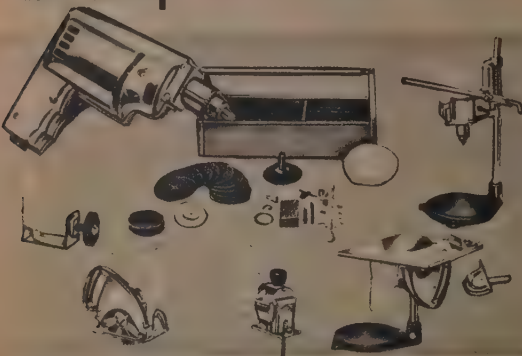
**REPLACEMENT TIPS**

| Stock No. | Type   | Size  | 1-49, EA. | 50-Up, EA. |
|-----------|--------|-------|-----------|------------|
| 50 N 474  | Spade  | 1/4"  |           |            |
| 50 N 287  | Chisel | 1/4"  |           |            |
| 50 N 283  | Spade  | 1/8"  | 54c       | 49c        |
| 50 N 288  | Chisel | 1/8"  |           |            |
| 50 N 284  | Spade  | 1/8"  |           |            |
| 50 N 289  | Chisel | 1/8"  |           |            |
| 50 N 285  | Spade  | 1/16" | 54c       | 49c        |
| 50 N 286  | Chisel | 1/16" |           |            |

**IRON-PLATED TIPS**

| Stock No. | Type   | Size | 1-49, EA. | 50-Up, EA. |
|-----------|--------|------|-----------|------------|
| 50 N 293  | Chisel | 1/4" |           |            |
| 50 N 290  | Chisel | 1/8" |           |            |
| 50 N 294  | Chisel | 1/8" |           |            |
| 50 N 291  | Spade  | 1/8" | 1.18      | 1.08       |
| 50 N 295  | Chisel | 1/8" |           |            |
| 50 N 292  | Spade  | 1/8" |           |            |

# Workshop Kits—Power Tools



**Thor**  
**\$29.95**

## "SUPER" 1/4" DRILL KIT

42-PIECE POWER DRILL HOME WORKSHOP

- Saws, Grinds, Drills, Sands, Buffs, etc.
- Ideal Set for Home, Shop, Garage, Farm

**NO MONEY DOWN**

A complete home workshop with powerful 2 1/2-amp drill and attachments for hundreds of do-it-yourself projects. Drills, grinds, saws, sands, polishes, buffs, mixes paint, etc. Kit contains: Thor No. 20 drill; 9 drill bits; drill stand; circular saw and jigsaw attachments; steel saw table; 10 sanding discs; grinding wheel; wool polishing bonnet; cloth buff; rubber backing pad; 6-piece arbor set; paint stirring tool; steel post for use between saw table and bench; rugged steel tool box. Drill has self-aligning oilite bearings—husky 2 1/2-amp motor won't over-heat. Steel gear-type chuck takes 1/4" shanks. Trigger switch has locking pin. No-Load speed, 2400 rpm; full-load, 1500 rpm. Drill is 7" long. With 3-wire cord and plug. 2-prong adapter. U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 20 lbs.

50 NU 537. List \$54.95. NET. **29.95**

# THOR-SPEEDWAY Power Workshop



## COMPLETE 37-PIECE POWER WORKSHOP

NEW MODEL 125-K SPEEDPAK POWER TOOL SHOP

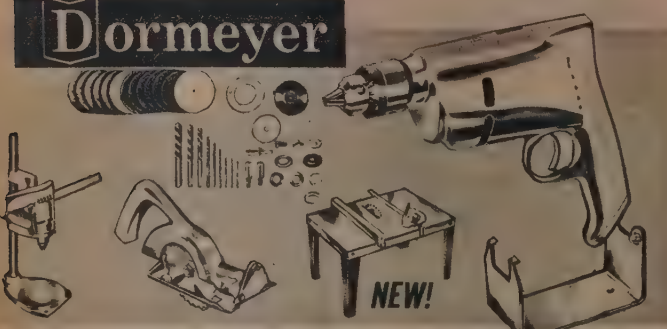
**\$41.95**

**NO MONEY DOWN**

You'll "breeze through" the toughest drilling, grinding, sawing, sanding, polishing and buffing jobs with these 3 power tools. Excellent for the shop, home, garage and farm. Powerful 2 1/2-amp drill has gear-type chuck—takes 1/4" drill shanks—drills steel and wood. 3-amp jig saw has 3/4" stroke: cuts 2" soft wood and 1/2" steel; saws, scrolls, straight, circles, curves—rips and angles to 45°. Handy sander also polishes and buffs. You also get 9 drill bits; jig saw table plate and 2 blades; 10 sanding discs; 3" grinding wheel Carbitrite abrasive sheet; 2 wool polishing pads; other accessories; and storage crib, overall size (with tools) 10 1/2 x 21 1/2 x 3 1/2". Tools have 4", 3-wire cords; plug into 10-ft., 3-wire master cord with 3-prong plug and 2-prong adapter. U.L. Approved. Industrially-rated. For 110-120 v., 60 cycle AC. 17 lbs.

50 NX 529. List, \$74.80. NET. **41.95**

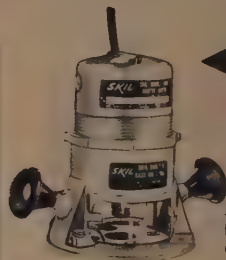
# Dormeyer



**MODEL DK-17 DELUXE 1/4" POWER DRILL KIT.** Complete 37-piece home workshop. Drills, saws, polishes, grinds, sands, buffs, etc. Includes: Model SD-7, 1/4" drill; vertical drill stand; horizontal drill stand; portable saw attachment with rip fence and saw blade; saw table; 12 sanding discs; sand-pattern; buffing wheel; 7 drill bits; 6-pc. arbor set; 5-pc. saw attachment mounting assembly.

Smooth-running 2.6-amp motor has self-lubricating bearings. Steel-gear chuck securely grips drill bits and attachments. Built-in switch locks drill on—releases instantly. Adjustable level aids drilling accurate holes. No-load speed, 2200 rpm. U.L. Approved. With 3-wire cord, plug and 2-prong adapter plug. For 110-120 v., AC or DC. Wt., 23 lbs. **No Money Down.**

50 NU 704. List, \$47.70. NET. **27.97**



**SKIL**

**NEW  
MODEL 297  
HEAVY-DUTY  
ROUTER**

Mortises, Trims,  
Routes, Dadoes,  
Grooves, Beads

**\$59.50**

**NO MONEY DOWN**

Lightweight, 1/4-hp router for a wide range of routing, trimming, cove-cutting, rabbeting and decorative cutting. Does accurate work. With collet wrench; 3-wire cord and plug. U.L. Approved. For 110-120 v., AC or DC. Shpg. wt., 8 lbs.

50 NX 544. NET. **59.50**

**ROUTING BITS FOR ABOVE.** Straight bits, 1 flutes; 1/4" shank dia.; 1 1/4" cutting length. 1 1/2" shank length. Shpg. wt., 2 oz.

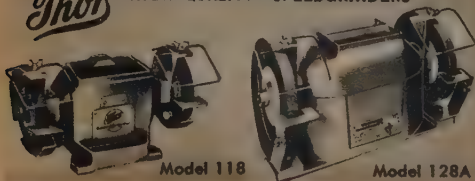
50 N 545. With 1/4" tip dia. NET. **1.75**

50 N 546. With 3/8" tip dia. NET. **2.40**

50 N 547. With 1/2" tip dia. NET. **2.90**

**Thor**

## HIGH QUALITY "SPEEDGRINDERS"



Model 118

Model 128A

**MODEL 118.** Low-cost, light-to-medium-duty, bench-type grinder for shop, garage and home. Has lightweight aluminum body, water-cooling tray, tool rests, dust shields. With 2 grinding wheels (40 and 70 grit). 4 1/2 x 1/2". 3/8" holes; 6-ft. cord. Length, 9 1/4". U.L. Approved. For 110-120 v., 60-cycle AC. Shpg. wt., 14 lbs.

50 NX 321. List, \$21.95. NET. **15.39**

**MODEL 128A.** Deluxe "SpeedGrinder" for heavy jobs around the shop, garage, farm and home. Lightweight, portable cast-aluminum body has rubber feet—won't mar tabletop. Powerful 1/4-hp motor—3450 rpm, no load. Self-aligning bearings need no oil. With 2 grinding wheels (46 and 75 grit). 6 1/2 x 1/4". 1/2" holes; tool rests with angle guides; dust shields; 7-ft., 3-wire cord. Length, 16". U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 24 lbs.

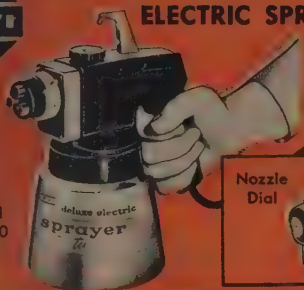
50 NU 485. List, \$35.50. NET. **24.95**



# Precision Power Tool Kits and Spray Equipment

## ELECTRIC SPRAYERS

Model  
S-850



Nozzle  
Dial



**BURGESS VS-850 ELECTRIC SPRAYER.** Deluxe model with 3 spray nozzles in rotating turret. Sprays paint, varnish, enamel, light etc. Handy "dial-a-spray" produces fan-shaped spray for walls, round spray for cabinets, furniture, car fenders, fences; fogger den sprays, mothproofers, insecticides. Sprayer is foolproof, free and easy to clean. Reciprocating motor is housed in a roof head. With 24-oz. container and 8-foot, heavy-duty cord. 120 v., 50-60 cycle AC. 4 lbs.

584. List, \$19.95. NET.....14.63

**VS-855 ELECTRIC SPRAYER.** As above, but with one adjustable nozzle. Shpg. wt., 3½ lbs.

705. List, \$12.95. NET.....9.69



## ATLAS LOW-COST PROFESSIONAL SPRAYER

\$19.95

NO MONEY  
DOWN

A genuine compressor-type spray unit at an extremely low price. Gives you a much faster, more professional spraying job with various types of paint, enamel, varnish, insecticides—even multicolor liquids. Compressor has precision-machined piston, honed cast-iron cylinder. Internal-mix, pressure-type gun gives wide, uniform fan spray. Complete with 1-quart aluminum container; 3 spray nozzles for all types of work; 10-ft. hose and fan-cooled, universal ½-hp motor. For 110-120 v., AC or DC. Shpg. wt., 10 lbs.

50 NX 526. List, \$29.95. NET.....19.95

47 N 089. Extra Quart Container. Wt., ¾ lb. NET....1.19

*Thor*

## G-A-K TOOL KIT



Best, 28-piece power tool kit. Powerful 3450-rpm motor has self-aligning bronze gears. Ideal for intricate precision cutting, grinding. Kit includes 4 grinding wheels; 4 cutting burrs; 3 brushes; 1 polish; 2 mandrels; and 12 sanding discs. Case; manual; 3-wire cord, plug and adapter. For 110-120 v., AC or DC. Shpg. wt., 2½ lbs.

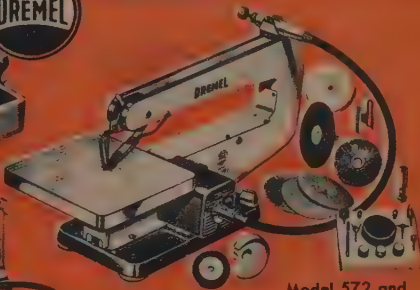
365. List, \$19.95. NET.....13.95



Model 2

Model 60  
Power Unit

## MOTO TOOL KIT



Model 572 and  
Accessories

## DREMEL MOTO-TOOL KITS FOR CRAFTSMEN AND HOBBYISTS

**MODEL 2 MOTO-TOOL KIT.** A pocket-sized "machine shop" for precision engraving, routing, sanding, polishing, sawing, grinding, drilling, burring. Fingertip control and vibration-free, 27,000-rpm motor permit pinpoint accuracy in fine-detail work. Self-aligning bearings in felt oil retainers minimize oiling. Includes Model 221 Moto-Tool; quick-action chuck and 3 collets; finger-grip; 4 emery wheel points; dressing stone; 8 steel cutters and steel saw; 5 bristle brushes; 1 steel brush; shoulder mandrel with sanding disc; screw mandrel with felt wheel; routing, sanding, case. For 110-120 v., AC or DC. Shpg. wt., 4 lbs. *No Money Down.*

46 N 378. List, \$27.50. NET.....20.53

50 N 598. 221 Moto-Tool Only. NET 11.17

**MODEL 572 DELUXE MOTO-SHOP KIT.** Low-cost power workshop featuring large-capacity 1½" jig saw with power takeoff and disc-sander attachment. Handles all jobs around home and hobby shop—from intricate scroll-work to full-sized furniture. Rocker-action saw has tilting table, 3450-rpm rotary motor, blade guard. Flexible shaft drives grinders, drills, buffers, sanders, etc.

**MODEL 60 "FLEX-O-TOOL" POWER UNIT.** Powerful, portable motor with 36" flexible shaft for driving, grinding, drilling, sanding, engraving, polishing tools. Ideal for shop, home, farm or lab. Plastic handpiece has steel grip for close detail work. 3450-rpm motor in carrying case, with rubber suction feet. With extra collet and instructions. For 110-120 v., 50-60 cycle AC. Shpg. wt., 6½ lbs. *No Money Down.*

45 N 237. List, \$34.50. NET.....23.00

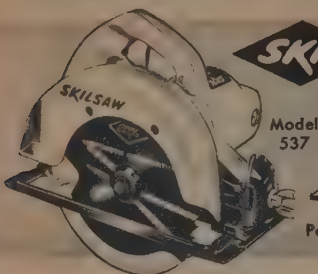
**Model 574 12-Piece Tool Kit.** For use with "Flex-O-Tool" power unit listed above. Includes: 1 steel cutter, 1 twist drill, 2 wheel points, 2 brushes, 1 sander, 3 sander bands, 2 collets. Plastic box. 2 lbs.

45 N 234. List, \$5.15. NET.....3.49

Accessories include: plastic handpiece; rubber backing pad and adapter; 3 sanding discs; grinding wheel; cloth buffing wheel; wire wheel; wheel guard; polishing compound stick; and 12-piece set of abrasive wheels, collet adapters, router, brush and drill. For 110-120 v., 60-cycle AC. Shpg. wt., 17 lbs. *No Money Down.*

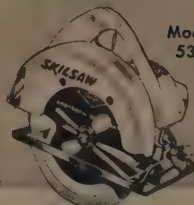
46 NX 952. List, \$49.95. NET.....37.30

# Versatile Circular and Jig Saws



Model 537

Powerful, Safe,  
Easy-To-Use



Model 536

## MODEL 537 DELUXE 7 1/4" SAW

Low-cost, deluxe 7 1/4" saw with over 1 1/2 horsepower for the home craftsman and professional user. Handles lots of rugged jobs—won't stall on tough rip cuts.

Power-packed 10-amp motor drives blade through 2" lumber at angles up to 45°, even after several sharpenings. Important features include: air-stream ejector to blow sawdust away from line of cut; blade lock for fast, safe blade changes; "vari-torque" clutch to disengage saw shaft if blade jams or binds; handy depth control to firmly lock saw at any cutting depth; full-view blade for accurate cutting; bind-free blade guard. No-load speed, 5150 rpm. Momentary contact switch. Depth of cut: at 90°, 2 3/4"; at 45°, 1 7/8". Supplied with combination blade, blade wrench, 3-wire cord and 2-prong adapter. Length, 12". U.L. Approved. For operation from 110-120 volts, AC or DC. Shpg. wt., 18 lbs.

50 NX 486. List, \$59.95. NET.....44.95

## MODEL 536 6 1/2" SAW

For homeowners planning an extra room, porch, or other major project. 1-hp motor has power to spare on tough cuts. 6 1/2" blade makes 45° bevel cuts in 2" dressed lumber; cuts 2 3/4" deep at 90°, 1 3/4" at 45°. Has "vari-torque" safety clutch; depth and bevel controls, sawdust ejector; bind-free lower blade guard. No-load speed, 6300 rpm. Length, 9 1/4". With combination blade; blade wrench; 3-wire cord, 2-prong adapter. U.L. Approved. For 110-120 v., AC-DC. Shpg. wt., 12 lbs.

50 NX 534. List, \$49.95. NET....37.29

50 N 278. Model 17984 Rip Fence. For above.

Shpg. wt., 4 oz. List, \$2.95. NET.....2.34

45 NX 225. 18606 Steel Carrying Case. For 5 1/2"-6 1/2" saws. List, \$16.00. NET....11.95

Model 574 Saw Table. For Models 526, 533, 536 and 552 (type 1-5 only). For grooving, notching, dadoing. Adjustable rip, miter guides. 21x16x10" H. 16 lbs.

45 NX 226. List, \$19.95. NET.....14.89

## HEAVY-DUTY BALL-BEARING SAW

ONLY \$59.47

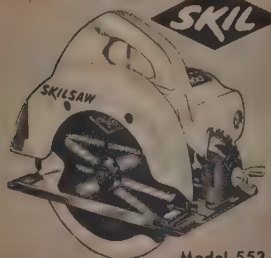
- Full 7 1/4" Blade
- 12-Amp 2-HP Motor
- "Vari-Torque" Clutch

Model 553. Offers extra power and capacity for professional use. Includes all features of model 537, above left, plus ball-bearing design, extra-rugged helical gears and a 12-amp motor of over 2 hp. Cuts 2 3/4" deep at 90°; 1 7/8" deep at 45°. 5200-rpm, no-load. 12" long. U.L. Approved. For 110-120 v., AC-DC. Shpg. wt., 18 lbs.

45 NX 222. List, \$84.95. NET....59.47

Model 552. Similar to above, but 6 1/2" blade cuts 2 3/4" at 90°; 1 3/4" at 45°. 5800-rpm, no-load. 10 1/4" long. Shpg. wt., 15 lbs.

50 NX 533. List, \$69.95. NET.....48.97



Model 553

## THOR-SPEEDWAY

Top-Quality Saws  
For Home or Shop



Model 70

## MODEL 5 ECONOMY JIG SAW

A budget-priced saw that solves virtually every workshop cutting problem. Saws curves, scrolls, circles, straight lines and rips; cuts 45° angles. Husky 3-amp motor has no-load speed of 3000 strokes-per-minute. Stroke length, 3/4". Cuts 2" in soft wood, 1/2" in steel. Has helical-cut steel gears, oilite bearings. Base tilts to 45°. 6 3/4" long. With 1 wood-cutting blade, blade wrench, 3-wire cord and 2-prong adapter. U.L. Approved. For 110-120 volts, AC or DC. Shpg. wt., 5 lbs.

50 N 540. List, \$22.95. NET.....14.49

## SPEEDWAY MODEL 70 7" SAW

A powerful package at a truly low price. 10-amp motor turns out 1 1/2-hp to tackle rugged jobs with ease. Cuts 3 1/4" stock at 45° and 2 1/2" at 90°. Built-in calibrator for 0° to 45° cutting. Safety-slip clutch avoids excessive wear on gears and bearing; gives extra protection against "kick-back". Adjustable sighting guide and wide-range cutting vision for accurate cutting. Telescopic guard retracts as blade enters work. 6000 rpm, no-load. With 7" combination blade, all-purpose blade, 3-wire cord and 2-prong adapter. U.L. Approved. For 110-120 v., AC-DC. 17 lbs.

50 NX 535. List, \$36.00. NET....29.49



Rips, Scrolls,  
Crosscuts, Notches

## MODEL 524 JIG SAW

ONLY \$23.07

- 2.3-Amp AC-DC Motor
- Helical-Cut Gears
- Sawdust Blower

Lightweight, economy jig saw with orbital action for fast cutting and minimum blade wear. Crosscuts, rips, scrolls, notches and bevels up to 45°. Cuts intricate patterns and makes its own starting hole for pocket cuts. Cuts soft wood up to 2" at 90°; 1 1/4" at 45°; soft metals to 1/2"; mild steel to 3/8". 3700 3/4" strokes-per-minute, no-load. Anti-friction self-lubricating bearings. 7 1/4" long. With 3 wood-cutting blades and wrench. 3-wire cord and adapter. U.L. Approved. For 110-120 v., AC-DC. 5 1/2 lbs.

50 N 519. List, \$32.95. NET.....23.07



## DELUXE MODEL 514 JIG SAW

For those who want top cutting speed and accuracy. Efficient orbital action. 2.3-amp motor, helical gears, ball-thrust and cushion mounted anti-friction bearings. Contour grip is directly over point of cut. 4000 1/2" strokes/minute, no-load. 8" long. With 4 jig saw blades, wrench, 3-wire cord and 2-prong adapter. U.L. Approved. For 110-120 v., AC-DC. Shpg. wt., 6 lbs.

50 NU 074. List, \$42.95. NET....30.07

## UNIVERSAL REPLACEMENT BLADES

### Jig Saw Blades

For all jig saws on this page.

| Stock No. | Use For        | Blade  | Wt., Lbs. | Set of 5 |
|-----------|----------------|--------|-----------|----------|
| 50 N 445  | Heavy wood     | Coarse | 1/4       | 3.72     |
| 50 N 446  | Wood & plastic | Fine   | 1/4       | 3.72     |
| 50 N 447  | Thin wood      | Fine   | 1/4       | 3.72     |
| 50 N 448  | Roughing cuts  | Coarse | 1/2       | 2.16     |
| 50 N 449  | Roughing cuts  | Fine   | 1/2       | 2.16     |

### Circular Blades

Circular saw replacement blades of brightly finished steel. Fit saws with Diamond, 1/2" Round, or 3/8" Round arbor. \*Chisel tooth. 1 lb.

| Stock No. | Mfr's Type | Dia.   | Style        | NET EACH |
|-----------|------------|--------|--------------|----------|
| 50 N 563  | C-612-UN   | 6 1/2" | Combination* | 1.51     |
| 50 N 564  | C-714-UN   | 7 1/4" | Combination* | 1.51     |
| 50 N 565  | L-612-UN   | 6 1/2" | Cut-off      | 1.51     |
| 50 N 566  | L-714-UN   | 7 1/4" | Cut-off      | 1.51     |
| 50 N 567  | A-612-UN   | 6 1/2" | Rip          | 1.51     |
| 50 N 568  | A-714-UN   | 7 1/4" | Rip          | 1.51     |



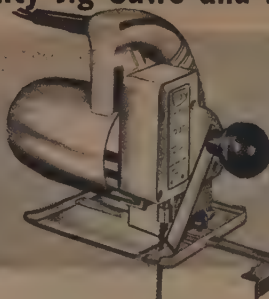
# Quality Jig Saws and Power Sanders



**WEN**

**World-Famous For  
Quality Tools**

**505K Kit**



**HANDLES ALL  
SAWING JOBS  
WITH EASE...  
FROM  
6" LOGS TO  
SCROLLWORK**

**Model 909**

## **WEN 505K SABRE SAW KIT**

**ACTUALLY 8 SAWS IN ONE**

- 1.8-Amp Rotary Motor
- Hundreds of Uses

Deluxe power saw kit for home or shop. 1.8-amp rotary motor delivers 2650 r.p.m. under load; plenty of power for making short work of extra-tough  $\frac{1}{2}$ " stroke speeds cutting time. Use deluxe outfit as a rip saw, coping saw, crosscut saw, scroll saw, jig saw, and keyhole saw. Kit includes: #1 505 sabre saw; fine blade, medium coarse blade; plus one blade each, for steel and non-ferrous metals; sturdy carrying case. Will cut any material including  $\frac{1}{2}$ " cold-rolled steel and 2x4 lumber. Makes starting holes and inside cuts. Air stream keeps guide line dust-free. Length, 7 $\frac{1}{2}$ ". With 3-wire cord and 2-prong adapter, U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 6 $\frac{1}{2}$  lbs.

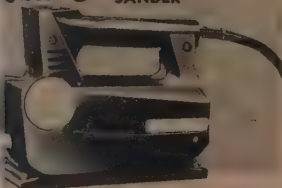
**541. List, \$26.95. NET.....21.99**

**EL 505 SAW ONLY.** With fine, coarse medium blades. 4 lbs.

**362. List, \$29.95. NET.....19.81**

**363. Extra Set of 3 Blades.** Same as saw only. 4 oz. NET.....82c

## **Veller MODEL 77 SANDER**



- 4.8-Amp Motor
- Fan-Cooled
- Comfortable Handle
- Rugged Plastic Case

All-new, attractively-designed sander for a long, trouble-free life under hard use, and for comfortable, easy to use operation.

Powerful 4.8-amp reciprocating motor is fan-cooled and drives unit at 14,400 strokes-per-minute. Stroke length is  $\frac{3}{8}$ ", sanding plate 26 square inches. Convenient removable handle can be inserted on either side for left or right hand operation—or removed altogether for easy access to corners. Long-life rubber bearings end wear and vibration problems.

Used in good-looking rugged plastic case with high-impact sanding plate. Uses 3 $\frac{1}{2}$ x9" sanding sheets (not included). 9" long, 8-ft. For 110-120 v., 60 cycle AC. Shpg. wt., 5 $\frac{1}{2}$  lbs.

**570. List, \$19.95. NET.....14.66**

## **WEN 909 "ALL-SAW"**

Extra-powerful, heavy-duty unit for every kind of sawing. Has circle gauge for easily cutting arcs and perfect circles. Cuts curves, straight cuts or fine pattern work in masonry, bakelite, wood, metal, tile, formica, wallboard, asbestos. Cuts all metals—from thin gauge to  $\frac{1}{2}$ " thick. Even cuts logs to 6" in diameter, makes 90° cuts in 6x6's, 45° cuts in 4x4's, and cuts 2" pipe. Curved foot plate enables saw to start its own inside cut anywhere. Features  $\frac{1}{2}$ -hp, 6-amp motor, finger control trigger switch, heavy-duty hardened gears. Cutting blade is in line-of-sight for high accuracy on critical cuts; air

stream keeps line of cut clean. Superbly balanced. Adjustable rip guide. With 8-ft. 3-wire cord and 2-prong adapter, 7 different blades, circle cutter, 45° tilting base plate, 7 $\frac{1}{2}$ x7x8". U.L. Approved. For 110-120 v., AC-DC. Wt., 8 $\frac{1}{4}$  lbs.

**50 N 236. List, \$44.95. NET.....33.05**

**MODEL 972 SAW TABLE.** With protractor, jointer, circle cutter, rip fence, front switch. 18x18x8 $\frac{1}{2}$ ". 14 lbs.

**50 NX 320. List, \$14.95. NET.....10.99**

**MODEL 900 REPLACEMENT BLADE SET.** 7 asstd. blades—coarse, med., fine  $\frac{1}{2}$  lb.

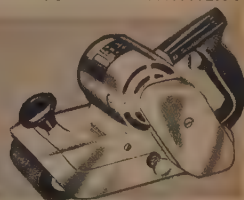
**50 N 237. List, \$3.40. NET.....2.50**

**Model  
592**



**SKIL  
POWER  
SANDERS**

**Model  
405**



## **MODEL 592 ORBITAL SANDER**

For coarse or fine-finish sanding, buffing or polishing. Sands up to vertical edges and into corners. 2 $\frac{1}{2}$ -amp motor; 5000 orbits per minute. With 3 asstd. 3 $\frac{1}{2}$ x9" sanding sheets, 3-wire cord, 2-prong adapter. 6 $\frac{1}{2}$ x9 $\frac{3}{4}$ x3 $\frac{3}{8}$ ". U.L. Approved. For 110-120 v., AC-DC. Wt., 7 lbs.

**50 NX 520. List, \$32.95. NET.....23.07**

**POUSHING PAD.** Lamb's wool. Wt., 3 lbs.

**50 N 096. List, \$1.50. NET.....1.12**

## **MODEL 405 BELT SANDER**

Professional quality. 4" wide belt moves at rate of 1350 ft./minute. Has 7-amp motor, ball and sleeve bearings. Sands up to vertical edges. 6 $\frac{1}{2}$ x6 $\frac{1}{2}$ x12 $\frac{1}{2}$ ". With sanding belt, 3-wire cord, 2-prong adapter. U.L. Approved. For operation from 110-120 v., AC-DC. Wt., 15 lbs.

**50 NX 328. List, \$89.95. NET.....66.99**

**BOX OF 10 ASSORTED BELTS.** 1 $\frac{1}{2}$  lbs.

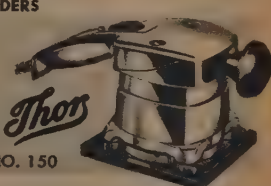
**50 N 078. List, \$8.25. NET.....6.60**

## **THOR ORBITAL SANDERS**



**THOR-  
SPEEDWAY  
NO. 1**

**For All  
Refinishing  
Work**



**NO. 150**

## **ECONOMY ORBITAL SANDER**

An excellent value in a low-cost orbital sander. Saves work around the home or shop by efficiently handling all kinds of sanding, buffing and polishing jobs. Can even be used for massaging.  $\frac{1}{4}$ " orbit duplicates orbital action of hand sanding, but with far less effort. Has large 4 $\frac{1}{2}$ x5 $\frac{1}{2}$ " sanding area. No-load speed, 3450 rpm. Uses 4 $\frac{1}{2}$ x6 $\frac{1}{2}$ " sandpaper sheets (not included). Handy push-button switch. Overall length, 8". With 6-ft. 3-wire cord and 2-prong adapter. U.L. Approved. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 5 $\frac{1}{2}$  lbs.

**50 N 682. List, \$20.95. NET.....11.99**

## **TOP-VALUE ORBITAL SANDER**

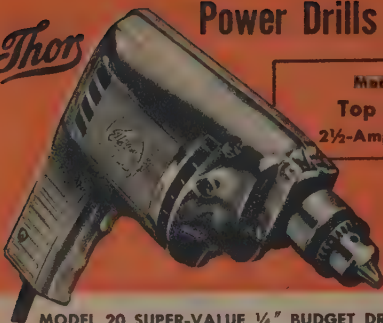
This highly versatile unit is one of the world's fastest selling sanders. Deluxe features and low-cost combine to make it a top-value. Has orbital motion and large sanding surface for rough sanding as well as smooth finishing. Sands or polishes vertically or horizontally. Functional styling permits long use without fatigue. Can be used with wet or dry abrasives. 1.8-amp 3450-rpm motor, aluminum body, polished ball bearings. Sands 4 $\frac{1}{2}$ x5 $\frac{1}{2}$ " area with  $\frac{3}{8}$ " orbit. Uses 4 $\frac{1}{2}$ x6 $\frac{1}{2}$ " sandpaper sheets (not included). Size, 4 $\frac{1}{4}$ x4 $\frac{1}{2}$ x9". With 3-wire cord and 2-prong adapter. U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 7 lbs.

**46 N 375. List, \$24.95. NET.....19.29**

**Your Satisfaction is Guaranteed When You Buy at Allied**

**Thor**

# Power Drills



Model 20  
Top Value  
2 1/2-Amp 1/4" Drill

## MODEL 20 SUPER-VALUE 1/4" BUDGET DRILL

ONLY  
\$11.95

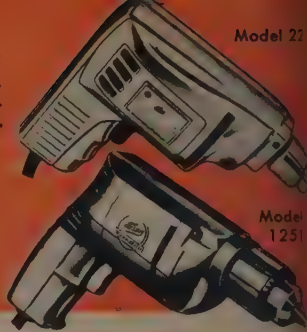
- Powerful 2 1/2 Amp Motor
- Smooth Ball-Thrust Bearings
- Gear-Type Chuck and Key

An outstanding value in a highly-efficient 1/4" power drill. Ideal for a wide variety of jobs around shop, home, garage and farm. Husky 2 1/2-amp motor has plenty of power for driving drill attachments. Rugged gear-type chuck takes drill shanks to 1/4". Drills holes in steel to 1/4" dia., 1/2" in hardwood. Self-aligning ball-thrust bearings assure smooth operation. Momentary-contact switch has locking pin. No-load speed, 2400 rpm; full-load, 1500 rpm. Die-cast aluminum housing. Overall length, 9". U.L. Approved, industrially rated. Includes chuck key; 6-ft., 3-wire cord and 3-prong plug; and 2-prong adapter plug. For 110-120 v., 60-cycle AC. Shpg. wt., 3 1/2 lbs.

50 N 538. List, \$18.95. NET.....11.95



## Outfit Your Workshop on ALLIED'S CREDIT FUND PLAN



Model 22

Model 1251

## MODEL 22 1/4" ECONOMY DRILL

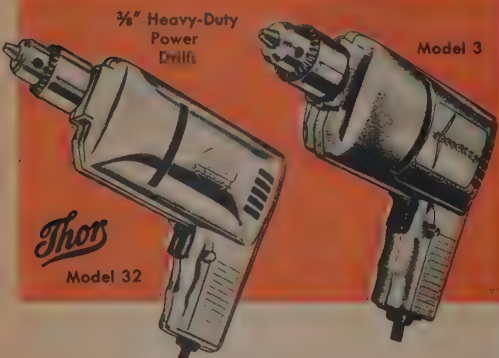
Top-flight, modern design plus quality materials and construction combine to make this 1/4" industrially rated drill a value leader in its class. A perfect unit for use in shops and heavy-duty use around the home. Power-packed 2.5 ampere motor features a 22-bar commutator for extra power and dependability. Other features contributing to the quality and value built into this drill include: lightweight, perfectly balanced, highly polished, die-cast aluminum housing; all-steel heat-treated gears; sealed ball bearing on spindle; precision geared chuck. No-load speed, 2400 rpm; full-load speed, 1500 rpm. Momentary-contact switch has locking pin. Overall length, 7 3/4". With chuck key, 6-ft. 3-wire cord, plug and 2-prong adapter. U.L. and CSA approved for industrial use. For 110-120 volts, AC, or DC. Shpg. wt., 4 1/2 lbs.

50 N 480. List, \$22.00. NET.....15.55

## MODEL 1251 HEAVY-DUTY 1/4" DRILL

This efficient, high-powered 3.1-amp drill has features any tool craftsman will appreciate. Meets government specifications for heavy-duty use. Has ball and needle bearings throughout; precision gears packed in lifetime grease; steel geared chuck; die-cast, polished aluminum housing; 22-bar commutator. Takes up to 1/2" shanks; drives 1/4" dia. holes through steel, 1/2" dia. in hardwood. No-load speed, 2200 rpm; full-load, 1400 rpm. Has oversized switch, with locking pin. Overall length, 8 3/4". With key; 10-ft., 3-wire cord and plug, 2-prong adapter. U.L. and CSA approved for industrial use. For 110-120 v., AC or DC. Shpg. wt., 5 lbs.

50 N 484. List, \$49.95. No Money Down. NET.....34.99



3/8" Heavy-Duty  
Power  
Drill

Model 3

**Thor**

Model 32

## MODEL 32 3/8" VALUE-PACKED DRILL

A 3/8" drill that looks and performs like costly professional models. Engineered to handle countless jobs around shop, garage, farm and home. Powerful 3.1-amp motor features a dynamically balanced armature free from vibration. Sealed radial thrust spindle bearing, 22 bar commutator, precision-hobbed steel gears, 3-jaw geared chuck, ball and oilite bearings. No-load speed, 925 rpm; full-load, 610 rpm. Length, 8 1/2". Includes chuck key; 6-ft., 3-wire cord and plug; 2-prong adapter. CSA and U.L. approved for industrial use. 110-120 volts, 50-60 cycle AC, or DC. Shpg. wt., 5 lbs.

50 N 478. List, \$27.95. No Money Down. NET.....20.75

## MODEL 3 3/8" ECONOMY DRILL

Husky 3/8" drill with that extra driving power you need for the toughest jobs. Even takes masonry bits, for drilling concrete and stone. Drills holes up to 3/8" dia. in steel, 3/4" in wood. Heavy-duty 3-amp motor has oilite bearings, 3-jaw geared chuck, with key. No-load speed, 925 rpm; full-load, 610 rpm. 6-ft., 3-wire cord and plug, and 2-prong adapter. U.L. Approved. For 110-120 v., 60 cycle AC. Shpg. wt., 5 lbs.

50 N 532. List, \$22.95. NET.....15.40

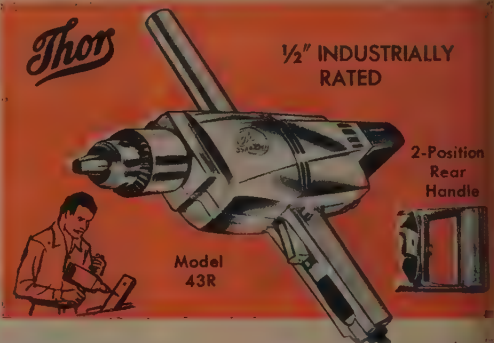
## MODEL 1276 HEAVY-DUTY 3/4" DRILL

(Not illius). Heavy-duty 3/4" drill, built to government specifications. Employs extra-rugged, oversized parts for continuous use under severest conditions. Husky 3.1-amp motor drives all 3/4" attachments. Has sealed ball and needle bearings; 22-bar commutator; heat-treated alloy-steel gears; heavy-duty switch with locking pin. No-load speed, 1000 rpm; full-load, 650 rpm. Length, 9 3/4". Meets federal specification W-D-661b. U.L. and CSA approved for industrial use. With 3-wire cord, plug and 2-prong adapter. For 110-120 v., AC or DC. Shpg. wt., 5 1/2 lbs.

50 N 477. List, \$34.95. No Money Down. NET.....37.04

**Thor**

## 1/2" INDUSTRIALLY RATED



Model 43R

2-Position  
Rear  
Handle

NET  
\$3290

- Reversible 6 1/2-Amp Motor
- Drills 1/2" Dia. in Steel, 1/4" Dia. Holes in Wood

MODEL 43R. A powerful, easy-handling 1/2" drill. Reversible, for quick, safe removal from heavy steel and wood. Husky 6 1/2-amp motor has 28-bar commutator—runs cool under heavy load. Armature is statically and dynamically balanced. Helical heat-treated steel gears. Aluminum housing; safety and reversing switch in handle; 2-position rear handle; removable top handle. No-load speed, 600 rpm; full-load, 400 rpm. With safety lock and neutral release; 3-jaw steel chuck and key; 6-ft., 3-wire cord, plug and 2-prong adapter. U.L. and CSA approved for industrial use. 14 1/2" long. For 110-120 v., AC or DC. Shpg. wt., 12 lbs.

50 N 476. List, \$44.95. No Money Down. NET.....32.90

MODEL 4. Low-cost 1/2" drill. Similar to above, but non-reversing, 5 1/2-amp motor; same speeds and handle features. Sealed radial thrust ball bearing on spindle; safety switch and lock; aluminum-alloy housing. With key; 6-ft., 3-wire cord, 2-prong adapter. U.L. Approved. 14 1/2" long. For 110-120 v., AC or DC. 12 lbs.

50 N 510. List, \$34.95. No Money Down. NET.....22.95



**SKIL**

# Power Drills and Accessories

Model  
560

**U.L. APPROVED  
HEAVY-DUTY  
POWER  
DRILLS**

Model  
503

Model  
549

**SKIL DELUXE MODEL 560 3/4" DRILL.** Powerful 3-amp motor has double-reduction gears for high drilling torque. Drills to 3/4" dia. steel, 1/2" in wood. Efficient side handle gives you extra control using large bits (wood augers or hole saws)—is removable for use in tight spots. Oversized fan keeps motor running cool even in prolonged jobs. Momentary-contact trigger switch shuts off released—has lock-button for continuous use. With steel 3/8" chuck and key; 3-wire cord, plug and 2-prong adapter. ad speed 1000 rpm. U.L. Approved. 9 3/4" long. For operation 110-120 v., AC. Shpg. wt., 4 1/4 lbs.

542. List, \$32.95. NET.....23.07

**SKIL MODEL 541 1/2" DRILL.** Husky, compact 1/2" drill with pistol-grip for heavy drilling with ease. True double-reduction gears for high torque from cool-running 3-amp motor. Rugged steel 1/2" chuck spindle has multi-ball thrust bearing for heavy duty. Removable side handle gives you extra control with large augers or hole saws. Momentary-contact trigger switch has lock button. With key, 3-wire cord and plug, and 2-prong adapter. ad speed, 750 rpm. U.L. Approved. 9 3/4" long. For 110-120 v., shpg. wt., 4 1/4 lbs.

543. List \$34.95. NET.....24.47

## VEN MODEL 808 3/8" DRILL

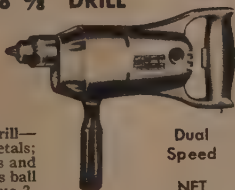
- 2 Power Takeoffs  
..... 3000 and  
1000 rpm
- Removable Extra  
Handle

Versatile 2-speed 3/8" drill—3000 rpm for wood, metals; 1000 rpm for heavy metals and concrete. Geared chuck has ball thrust bearings. High-torque 2-amp motor; trigger switch, lock button; 6-ft., 3-wire cord, plug and 2-prong adapter. U.L. Approved. 12 1/2" long. For 110-120 v., AC or DC, 5 lbs.

46 N 947. List, \$29.95. NET.....19.97

Dual  
Speed  
NET

**\$19.97**


**SKIL**

## SNAP/LOCK ATTACHMENTS

Snap On or Off Drill in 3 Seconds

Attachments fit following 1/4" drills: Skil 503, 549, Type 5 and later; B&D U-1, U-3, U-15, U-50, U-400 and U-500. Less drill.

Model 22502 Jig Saw. Cuts metal and 1" lumber in straight lines, curves, circles. Starts own hole. Shpg. wt., 3 lbs.

50 N 424. List, \$16.95. NET.....11.87

Model 22503 Orbital Sander. Handles toughest jobs. Includes Perma-Grit sanding sheet. Uses 3 3/8"x9" sheets. Shpg. wt., 3 lbs.

50 N 425. List, \$16.95. NET.....11.87

Model 22501 5" Circular Saw. Cuts 1" at 45°, 1 1/4" at 90°. Has depth, bevel controls; telescoping guard; retractable handle; rip fence; 5/8" blade; 1/2" arbor. Shpg. wt., 3 lbs.

50 N 423. List, \$16.95. NET.....11.87



Model  
22502

## THOR 200K BUDGET-PRICED 1/4" DRILL KIT

Available, economy drill kit—consists of a powerful drill, accessories and a sturdy steel carrying and storage case. Thor No. 20 Drill, with 2.5-amp motor. Has ample power for all drill attachments. Geared chuck with key assures firm, non-slip grip on drill bits. Accessories. Has long-life ball thrust bearing. Can be used as an impact sander, polisher and buffer, as well as a drill.

Includes No. 20 drill, 9 assorted drill bits, 4 1/2" wool polishing wheel, 4" rubber backer plate, 10 sanding discs, adapters and 10 1/2"x6 1/2"x3 3/4" steel case. Drill has 3-wire cord; 2-wire cord is supplied. For 110-120 v., AC. Shpg. wt., 9 lbs.

536. List, \$23.20. NET.....14.95

## THOR IMPACT WRENCH/DRILL KIT

Powerful 4-amp impact tool for assembly, repair and maintenance in shop, garage and farm. Wrench drives nut-driver sockets, gives powerful torque. Easily converts to 1/2" drill. Can be used with attachments to do work of power screwdriver, polisher, sander, saw, etc. Includes 6 most-used nut-driver sockets; 3-jaw, 10 1/2" chuck; and steel carrying case. With 3-wire, 10-ft. cord and 2-prong adapter. Case, 10 1/2"x11 1/2"x16 1/4". U.L. Approved. For 110 v., AC or DC. Shpg. wt., 21 lbs.

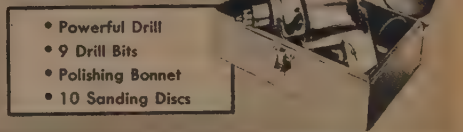
018. List, \$89.50. NET.....66.82

703. Impact Wrench Only, 9 lbs. NET.....55.59

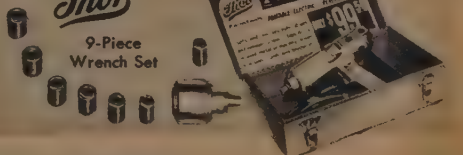
**Thor**

Top versatility at low cost

- Powerful Drill
- 9 Drill Bits
- Polishing Bonnet
- 10 Sanding Discs


**Thor**

9-Piece  
Wrench Set



Depend on Allied for Power Tools at Lowest Prices

# Selected Power Drill Accessories

Convert your portable power drill into a complete home workshop with these economical, easy-to-attach accessories.



## EXPAND THE VERSATILITY OF YOUR WORKSHOP AT EXCEPTIONALLY LOW COST

**A** ARCO 550 JG SAW. Fits any  $\frac{1}{4}$ " electric drill. Has adjustable circle cutter and rip-gauge. Cuts perfect circles up to 20" diameter; rips up to 10" wide. Does work of jig, keyhole, rip, cross-cut, band and hacksaw. Cuts plywood, plastic, 2x4" lumber. Air blower keeps work clear of sawdust. Right-angle drive. With blade. 2 $\frac{1}{2}$  lbs.  
50 N 231. List, \$9.95. NET.....6.63

**EXTRA BLADES.** Six blades—2 coarse, 2 medium, 2 fine-tooth. Wt., 2 oz.  
50 N 232. List, \$1.95. NET.....1.39

**B** ARCO 456 CIRCULAR SAW. Converts any  $\frac{1}{4}$ " drill into a power saw. "Dado-Arbor" swivels saw blade to cut any groove up to  $\frac{1}{2}$ " wide by 1" deep. Graduated depth gauge adjustable for cutting to depth of  $\frac{1}{4}$ ". Bevel gauge calibrated for making cuts from 0 to 45°. Right-angle drive. Gear case has self-lubricating bearings. With rip guide, yoke and 5" blade. 4 lbs.  
50 N 000. List, \$12.95. NET.....8.63

**EXTRA 5" BLADES.** For above. Tempered tool steel;  $\frac{3}{8}$ " bore. Shpg. wt.,  $\frac{1}{4}$  lb.

| Stock No. | Type | Description       | EACH |
|-----------|------|-------------------|------|
| 50 N 001  | 250T | Safecut blade     | 1.43 |
| 50 N 002  | 252T | Crosscut blade    |      |
| 50 N 004  | 253T | Combination blade |      |

**C** SKIL 19781 HOLE SAW. For any  $\frac{1}{4}$ " drill. Cuts holes from  $\frac{1}{8}$ " to  $2\frac{1}{2}$ ". Bores wood, plastic, composition. 1 $\frac{1}{2}$  lbs.  
50 N 269. List, \$4.95. NET.....3.99

**D** ERWOOD 355  $\frac{3}{8}$ " DIAL SAW. For use with electric drill, dial press, lathe, milling machine. Has  $\frac{3}{8}$ " shank. Dial for adjusting hole size from  $\frac{1}{4}$ " to  $3\frac{1}{2}$ ". For metals, woods, plastics. Also a rotary wood planer and groove cutter. Metal-cutting blades;  $\frac{3}{8}$ " Pilot drill. Wt., 1 $\frac{1}{2}$  lbs.  
50 N 373. List, \$10.50. NET.....7.39

**E** ROTEX "ROTO-PLANE" ATTACHMENT. Planes at any angle—with, across or against grain of wood. Depth of cut adjustable from 0" to  $\frac{1}{8}$ ". Guide edge provides automatic planing at a true 90°. Diagonal shearing action eliminates deflections from knot holes. Width, 1 $\frac{1}{4}$ ". Wt., 3 lbs.  
45 N 872. List, \$11.95. NET.....8.78

**F** BABCO KNIFE AND SCISSORS SHARPENER. Fits into the chuck of any  $\frac{1}{4}$ " electric drill. Beveled groove between 2 grinding wheels sharpens any knife quickly and efficiently. Cup guide on end of shaft holds scissors securely at proper angle for easy sharpening. Shpg. wt., 5 oz.  
50 N 377. List, \$1.00. NET.....75c

**G** BABCO 30 FOAM DISC SANDER KIT. 5" foam rubber backing pad with  $\frac{1}{4}$ " "Rubber-Flex" swivel drive. Fits any  $\frac{1}{4}$ " electric drill. Soft foam backer assures vibration-free sanding. With 6 assorted sanding discs for wood or metal. Wt., 8 oz.  
50 N 238. List, \$2.25. NET.....1.65

**BABCO 509 REPLACEMENT DISCS.** Package of 6. Shpg. wt.,  $\frac{1}{4}$  lb.  
50 N 239. NET.....37c

**H** G-H 825 DRILL GRINDING AID. Holds drill in correct position for accurate re-pointing and sharpening. Use with hand or electric grinder. For any of the following drills: Fractional— $\frac{1}{8}$ " to  $\frac{3}{4}$ "; Number size—No. 30 to No. 1; Millimeter size—3.0 to 19.0. Shpg. wt., 2 lbs.  
46 N 106. List, \$6.60. NET.....5.17

**J** HUOT DRILL CASES. Sturdy drill cases for compact storage and quick, convenient selection of the right drill for the job. Made of durable heavy-gauge steel. All include a convenient index which clearly shows drill sizes at a glance.

**60-DRILL CAPACITY.** Accommodates one each of standard drill sizes 1 to 60. Decimal equivalents and machine-screw tap data are included on inside of case. Size,  $3\frac{1}{4}$ x4 $\frac{1}{2}$ x1". Shpg. wt., 1 lb.  
46 N 790. NET.....1.84

**15-DRILL CAPACITY.** Similar to above, but accommodates 15 bits from  $\frac{1}{16}$ " through  $\frac{1}{2}$ " in diameter in  $\frac{1}{2}$ " intervals. Overall size, 4x7x1 $\frac{1}{4}$ ". Shpg. wt., 2 lbs.  
46 N 716. NET.....1.84

**29-DRILL CAPACITY.** As above, but takes 29 bits from  $\frac{1}{16}$ " to  $\frac{1}{2}$ " in steps of  $\frac{1}{64}$ ". Size, 4x7x1 $\frac{1}{4}$ ". Shpg. wt., 3 lbs.  
50 N 084. NET.....2.18

**13-DRILL CAPACITY.** Same as above, but accommodates 13 bits in sizes from  $\frac{1}{16}$ " through  $\frac{1}{4}$ " in  $\frac{1}{64}$ " steps. Size,  $2\frac{1}{2}$ x4 $\frac{1}{2}$ x $\frac{1}{2}$ ". Shpg. wt., 1 lb.  
44 N 842. NET.....81c

**K** BABCO 742 RIGHT-ANGLE DRIVE. Use with  $\frac{1}{4}$ " electric drills. Fits  $\frac{3}{8}$ "-24 threaded spindle (male or female). Two convenient speeds—halves drill speed for polishing; doubles drill speed for sanding. Shpg. wt.,  $\frac{3}{4}$  lb.  
50 N 375. List, \$4.49. NET.....3.3

**BABCO 730 RIGHT-ANGLE DRIVE.** For use with  $\frac{1}{2}$ " drills. Shpg. wt., 2 lbs.  
50 N 376. List, \$19.95. NET.....14.70

**L** BABCO 825 S-1 SPEED REDUCER. Fits any  $\frac{1}{4}$ " electric drill or drill press. Drives or removes up to No. 14 screws; drills masonry or wood. Reverse feature allows tapping up to 5 holes per minute. With  $\frac{1}{4}$ " and  $\frac{1}{2}$ " adapters,  $\frac{1}{4}$ " adapter sleeve, screwdriver bit with sleeve. Shpg. wt., 3 lbs.  
50 N 005. List, \$13.95. NET.....10.25

**M** AERO SA-2000 ORBITAL ACTION SANDER. Fits all  $\frac{1}{4}$ " and  $\frac{3}{8}$ " drills. Designed for sure, one-hand operation. Holds sand paper size, 3 $\frac{3}{4}$ x9" ( $\frac{1}{2}$ " of standard sheet). Size,  $7\frac{1}{2}$ x3 $\frac{3}{4}$ x $\frac{3}{4}$ ". Shpg. wt., 2 lbs.  
50 N 607. List, \$10.95. NET.....6.40

**N**  $\frac{1}{4}$ " CHUCK KEY. For use with gear-type chucks. Shpg. wt., 4 oz.  
50 N 195. NET.....70c

**$\frac{1}{2}$ " CHUCK KEY.** As above, but for  $\frac{1}{2}$ " chucks. Shpg. wt., 5 oz.  
50 N 197. NET.....81c

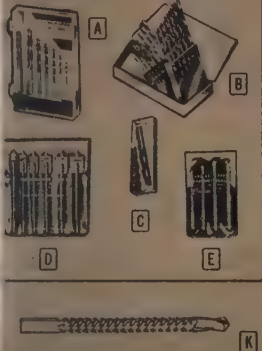
**P** BABCO 912 HORIZONTAL DRILL STAND. One-piece metal stand clamps or screws firmly on bench or shelf. Converts  $\frac{1}{4}$ " drill into a bench tool. Perfect for sanding, buffing, grinding and wire brushing; leaves both hands free. Heavy-duty clamp holds drill in position on stand; has adjustable nut for convenient leveling. Shpg. wt., 1 $\frac{1}{4}$  lbs.  
50 N 379. List, \$2.95. NET.....2.17

**R** BABCO 945 DRILL PRESS STAND. Converts pistol-grip drill into lever-operated drill press. Positive-action locking holds drill securely at selected height.  $2\frac{1}{4}$ " stroke. Handle provides up to 15-to-1 leverage. Adjustable stop for drilling holes to identical depths. Shpg. wt., 6 lbs.  
50 N 233. List, \$13.95. NET.....10.25



# Tool Kits and Drill Accessories

## CENTURY TOP-QUALITY HIGH-SPEED DRILLS



## CENTURY "MAGIC BLACK" DRILL SETS

**DRILL SET, 7 drills, 1/8" to 1/2" in 1/2" graduations.** Shank sizes are as drill bits. Supplied in handy, indexed, clear container. Shpg. wt., 6 oz.

784. NET. . . . . 3.29

**I SET.** Includes 5 drills, 1/8" to 1/2" in 1/2" graduations. Handed in steel Huot Drill Case. Every drill instantly accessible; drill bits are easily visible for selection. Shpg. wt., 1 lb.

785. NET. . . . . 8.69

**DRILL SET.** Includes 13 drills, 1/8" to 1/2" in 1/2" graduations. Packed in Huot Drill Case. Every drill instantly accessible. Case 4 1/2 x 2 1/2 x 3/4". Wt., 9 oz.

782. NET. . . . . 5.44

**III SET.** 15 drills, 1/8" to 1/2" in 32nds. over 1/4" have 1/4" shank. Case has for 14 more drills in 1/2" graduations. 7 1/2 x 4 1/2 x 3/4". Shpg. wt., 3 lbs.

786. NET. . . . . 18.95

**III SET.** Assortment of 60 drills, in drill 1 to 60. Packed in a steel Huot Index Case for protection and maximum accessibility. Case opens like a book for quick view of desired bit. Case, 4 1/2 x 3 1/2 x 2 1/2". Wt., 1 1/4 lbs.

717. NET. . . . . 20.95

**GIC BLACK" INDIVIDUAL DRILLS**  
high-speed drill bits in sizes from 1/8" to 1/2". Av. shpg. wt., 3 oz.

| No. | Size | NET | Stock No. | Size | NET  |
|-----|------|-----|-----------|------|------|
| 656 | 1/8" | .26 | 49 N 667  | 1/8" | .70  |
| 657 | 1/8" | .26 | 49 N 668  | 1/8" | .76  |
| 658 | 1/8" | .27 | 49 N 026  | 1/8" | .89  |
| 659 | 1/8" | .30 | 49 N 027  | 1/8" | 1.09 |
| 660 | 1/8" | .36 | 49 N 028  | 1/8" | 1.28 |
| 661 | 1/8" | .36 | 49 N 029  | 1/8" | 1.57 |
| 662 | 1/8" | .41 | 49 N 031  | 1/8" | 1.83 |
| 663 | 1/8" | .45 | 49 N 032  | 1/8" | 2.13 |
| 664 | 1/8" | .52 | 49 N 033  | 1/8" | 2.49 |
| 665 | 1/8" | .59 | 49 N 034  | 1/8" | 2.82 |
| 666 | 1/8" | .62 |           |      |      |

## HIGH-SPEED INDIVIDUAL DRILLS

or wood, plastic, thin aluminum sheets, etc. Drills have 1/4" shanks. Wt., 3 oz.

| No. | Size | NET | Stock No. | Size | NET |
|-----|------|-----|-----------|------|-----|
| 351 | 1/8" | .73 | 50 N 356  | 1/8" | .89 |
| 352 | 1/8" | .76 | 50 N 357  | 1/8" | .92 |
| 353 | 1/8" | .85 | 50 N 358  | 1/8" | .95 |
| 354 | 1/8" | .86 | 50 N 359  | 1/8" | .95 |
| 355 | 1/8" | .89 |           |      |     |

**HI-SPD POWER BIT SET.** 1/8", 1/4", 3/8", 1/2", 1". Shpg. wt., 12 oz.

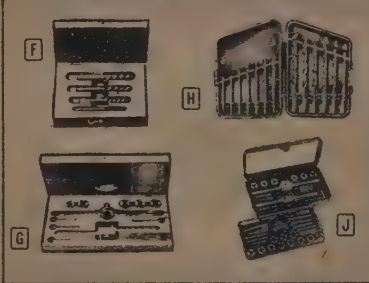
350. NET. . . . . 5.10

**EXTENSION.** For 1/4" shanks. Includes eye. Shpg. wt., 7 oz.

360. NET. . . . . 1.36

Add to the versatility of your home workshop with these drill accessories and attachments. Save at Allied's low, low prices!

## HENRY HANSON ACE TOOLS



## SPECIAL-PURPOSE DRILL BITS

**E 4-PIECE MASONRY DRILL SET.** 1/4", 3/8", 1/2" and 5/8". 1/4" shanks fit 1/4" drills. Carbide tips for drilling concrete, bricks and plaster. In plastic roll. Shpg. wt., 5 oz.

46 N 718. NET. . . . . 3.17

**CHROME STEEL DRILL BIT SET.** 5 chrome-alloy bits for electric drills. For use on aluminum and other soft metals. Sizes, 1/8", 3/8", 1/2", 5/8" and 1". 1/4" shanks. Wt., 1 lb.

46 N 787. NET. . . . . 3.18

## HENRY HANSON ACE TOOLS

**F MODEL 20 SCREW EXTRACTOR SET.** For clean, easy removal of broken screws, bolts, studs and pipes that resist regular methods. A hole is drilled into broken piece, using correct drill size marked on extractor. Turning extractor counter-clockwise removes broken piece on its own threads. No damage to threaded hole results. Set contains 4 extractors in polished hardwood box. Removes screws 1/2" to 3/4" in dia. Also, 1/4" and 1/2" pipe. Constructed of tough, highest quality alloy steel. Special heat-treatment—practically unbreakable. Wt., 1 lb.

46 N 264. NET. . . . . 1.88

**G MODEL 21 RADIO TAP AND DIE SET.** 12-piece set covering basic threads most often used. An excellent, low-cost set for the radio serviceman, hobbyist, or engineer. Includes 1 each plug tap and die, sizes 6-32, 8-32, 10-24, 12-24, 1/4-20. Dies are solid type. 1" dia. High carbon, tempered steel. In mahogany box. Shpg. wt., 3 lbs.

46 N 025. NET. . . . . 7.05

**H MODEL 113 HIGH-SPEED DRILL BITS.** Set of 13. 1/8" to 1/2" in 1/2" graduations. Plastic case. Shpg. wt., 6 oz.

50 N 059. NET. . . . . 4.45

**J MODEL 614V TAP AND DIE SET.** 39 pieces in all. Contains 1 each tap and die: 4-36, 6-32, 8-32, 10-24, 12-24 (Machine Screw Standard), 1/4-20, 3/8-16, 1/2-13, 5/8-11 and 1-13 NC (U.S. Standard), 1/4-28, 3/8-24, 1/2-20, 5/8-20 and 1-20, NF (S.A.E. Standard), 1/4" pipe. Includes die stock, tap and reamer wrench, "T" tap wrench, screwdriver and screw pitch gauge. 4 lbs.

46 N 245. NET. . . . . 25.70

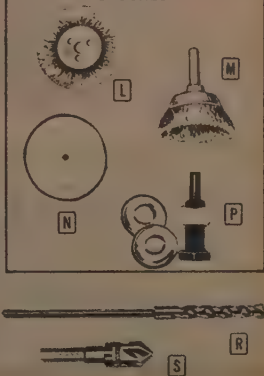
**INDIVIDUAL BITS AND DIES.** Made of tough carbon steel. Right-hand thread. Wt., 2 oz.

| Size   | Tap      | EACH | Die      | EACH |
|--------|----------|------|----------|------|
| 4-36   | 46 N 700 | 30c  | 46 N 706 |      |
| 6-32   | 46 N 701 | 30c  | 46 N 707 |      |
| 8-32   | 46 N 702 | 30c  | 46 N 708 |      |
| 10-24  | 46 N 703 | 30c  | 46 N 709 |      |
| 12-24  | 46 N 704 | 30c  | 46 N 710 |      |
| 1/4-20 | 46 N 705 | 39c  | 46 N 711 |      |

**TAP WRENCH.** "T" handle unit for above taps. Shpg. wt., 2 oz.

46 N 713. NET. . . . . 45c

## COASTAL WIRE WHEELS & BRUSHES



## BEAVER SAW DRILL BITS

**K All-purpose bit for use with any 1/4" to 1/2" electric drill, including drill presses.** Cuts, drills, etc. Wt., 3 oz.

46 N 795. All-Purpose Bit.

46 N 796. Wood Bit.

46 N 797. Heavy-Metal Bit. NET EA. . . 1.65

## COASTAL WIRE WHEELS AND BRUSHES

Wire wheels and brushes for home and servicing uses. For any electric drill or grinder that will accept a 1/4" shaft. Type Nos. ending with "C" are coarse. Those ending in "F," fine. \*Similar to Fig. L, but has shank.

| Stock No. | Fig. | Mfr's Type | Dia. | Mtg.       | Wt. Oz. | NET EACH |
|-----------|------|------------|------|------------|---------|----------|
| 50 N 711  | *    | P81F       | 2"   | 1/4" Shank | 4       | .65      |
| 50 N 710  | *    | P81C       | 2"   | 1/4" Shank | 4       | .59      |
| 50 N 708  | *    | P83F       | 3"   | 1/4" Shank | 6       | .81      |
| 50 N 709  | *    | P83C       | 3"   | 1/4" Shank | 6       | .74      |
| 50 N 028  | M    | S2C        | 2"   | 1/4" Shank | 4       | .89      |
| 50 N 029  | M    | S2F        | 2"   | 1/4" Shank | 4       | .99      |
| 50 N 200  | L    | P54F       | 4"   | 1/2" Bore  | 8       | .89      |
| 50 N 201  | L    | P54C       | 4"   | 1/2" Bore  | 8       | .89      |
| 50 N 202  | L    | P56F       | 6"   | 1/2" Bore  | 12      | 1.25     |
| 50 N 203  | L    | P56C       | 6"   | 1/2" Bore  | 12      | 1.03     |

**N MUSLIN BUFF.** High-quality 6" muslin buffing wheel and bar of jewelers rouge. Has 1/4" bore, can be used with arbor listed below. Shpg. wt., 4 oz.

50 N 204. NET. . . . . 81c

**MUSLIN BUFF.** Identical to above, but has 4" diameter. Shpg. wt., 3 oz.

50 N 205. NET. . . . . 49c

**P 725 ARBOR.** For holding wire and buffing wheels shown above. Has 1/4" shank, 1/2" body. Has machined and nickel-plated body. Shpg. wt., 8 oz.

50 N 206. NET. . . . . 32c

**BAG OF 5" ASSORTED SANDING DISCS.** Set of 6 sanding discs. Shpg. wt., 8 oz.

50 N 207. NET. . . . . 23c

## LONG-SHANK MASONRY DRILLS

**R TYPE L-56.** 18" carbide-tipped drill for 1/4" hole. With wide flute. 1 1/4 lbs.

47 N 007. NET. . . . . 3.36

**TYPE L-56.** For 3/4" hole.

47 N 008. NET. . . . . 4.09

## MILLERS FALLS MODEL 710 COUNTERSINK

**S Made of fine-grade high-speed steel.** Cuts soft steel, iron, wood and similar materials. Has 5 carefully ground flutes for fast cutting at 82° angle. Shank, 1/4". Overall length of unit is 2 1/2". Wt., 6 oz.

46 N 156. List, \$1.75. NET. . . . . 1.29

# Selected Quality Hand Tools



**A MILLERS FALLS MODEL 1710 BRACE.** For square shank bits. Adjustable forward-reverse ratchet control for use in limited space. Barber chuck with alligator jaws. 10" sweep. Ball-bearing head mount. Hardwood handle and handle. Wt., 2 3/4 lbs.  
50 N 022. List, \$6.50. NET.....4.88

**B MILLERS FALLS MODEL 170 AUTOMATIC DRILL.** Has quick-action chuck. Slight thumb pressure locks or releases. Red plastic handle has 4 compartments—holds up to 12 drill bits. With 4 drills: 3/64", 7/64", 9/64" and 1/16". 10 1/2" long. Shpg. wt., 3/4 lb.  
46 N 307. List, \$4.25. NET.....3.19

**C MILLERS FALLS MODEL 1425 HAND DRILL.** Has double pinion gears for smooth action. 3-jaw chuck takes drills to 1/4" dia. Nickel-plated frame and chuck. Hollow handle stores drills. Wt., 2 lbs.  
50 N 174. List, \$4.95. NET.....3.69

**D MILLERS FALLS MODEL 29 SPIRAL RATCHET SCREWDRIVER.** 1/4" bit drives or draws #4 to #8 screws. Hardwood handle, steel blade. Length, 10". Wt., 1/2 lb.  
50 N 189. List, \$3.50. NET.....2.63

**E MILLERS FALLS MODEL 10 AWL.** 2 3/4"-long steel blade. 4 7/8" long overall. 1 oz.  
50 N 190. NET.....29c

**F G-H MODEL 79 CENTER PUNCH.** Hand pressure on handle triggers powerful spring which drives punch. Turn top of handle to adjust tension for light or heavy punch. Size, 1/2" dia. x 5". Wt., 5 oz.  
46 N 195. NET.....3.10  
46 N 196. Extra Point. NET EACH.....44c

**G G-H MODEL 806 CENTER PUNCH.** For use with hardware having countersunk mounting holes—hinges, switch plates, etc. Tap pin and work is accurately marked. Shpg. wt., 2 oz.  
46 N 218. NET.....38c

**H SKIL "PERMA-GRIT" FILES.** Tungsten-carbide abrasive. Coarse on one side, fine on other. 14" overall length. Shpg. wt., 8 oz.

| Stock No. | Type  | Description     | EACH |
|-----------|-------|-----------------|------|
| 50 N 062  | 18730 | Flat file       |      |
| 50 N 063  | 19859 | Contour, coarse | 1.07 |
| 50 N 064  | 19860 | Contour, fine   |      |

**J BRINK & COTTON CARRIAGE CLAMPS.** Sturdily constructed "C" clamps of high-grade malleable iron. Have greater than usual throat depth and two heavy reinforcement ridges in corners. Permits deeper reach and greater pressure in clamping. Clamp screws have standard V threads and vise-type handles.

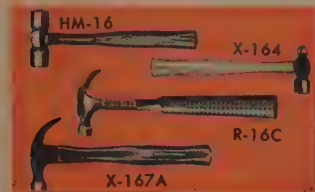
Maximum required pressure may be applied by hand alone—no other tools required. Rocking swivel pads at screw ends for equalizing pressure when clamping on irregular surfaces. Type 141 has screw diameter of 1/4"; Type 142 has screw diameter of 3/8"; Type 143 has screw diameter of 1/2". Shpg. wt., Type 141, 3 oz.; 142, 4 oz.; 143, 12 oz.

| Stock No. | Mfr's Type | Capacity | Depth  | Wt., Oz. | NET EACH |
|-----------|------------|----------|--------|----------|----------|
| 50 N 163  | 141        | 1"       | 1 1/4" | 3        | 21c      |
| 50 N 164  | 142        | 2"       | 1 1/4" | 4        | 29c      |
| 50 N 165  | 143        | 3"       | 2"     | 12       | 60c      |

## HAND-HELD REAMERS

**K HENRY HANSON TYPE 120.** For enlarging holes in chassis, panels, etc. Point, 1/8" dia. Length 5 1/2". Wt., 9 oz.  
46 N 243. NET.....1.19

**L MASTER REAMER.** Tapered from 1/8" tip to 3/8". Plastic handle. Length, 8". Shpg. wt., 6 oz.  
46 N 244. NET.....88c

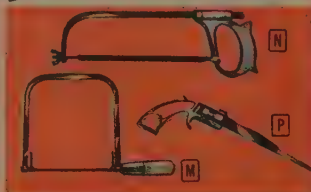


**VLCHEK HM-16 SOFT-FACE HAMMER.** Plastic-faced for driving bushings and wrist pins, straightening chassis, etc. Steel head, hickory handle. Length, 12 3/4". 1 lb.  
50 N 161. NET.....2.73

**VLCHEK X-164 BALL PEEN HAMMER.** Drop-forged, and finished in black baked enamel. Hickory handle. Length, 14". 1 1/2 lbs.  
50 N 577. NET.....1.33

**GREAT NECK R-16C CLAW HAMMER.** One-piece construction; rubber-cushioned handle. Length, 13". Shpg. wt., 1 1/2 lbs.  
45 N 848. NET.....3.53

**VLCHEK X-167A NAIL HAMMER.** Octagon neck and handle. Claw back. Black baked enamel finish. Length, 13". Shpg. wt., 1 1/2 lbs.  
50 N 576. NET.....1.42



**M COPING SAW.** Natural hardwood, lacquered handle. Ratchet locks blade in position. With 6 1/2" blade. Throat depth, 4 3/4". Shpg. wt., 4 1/4 lbs.  
45 N 878. NET.....45c

**REPLACEMENT BLADES.** 2 per pkg. Wt., 3 oz.  
45 N 876. PER PKG.....10c

**N PERBER TUBULAR HACK SAW.** Adjustable for 10 to 12" blades. 3/4" tubular steel frame. With 10" blade. 1 1/2 lbs.  
47 N 009. NET EACH.....1.49

**REPLACEMENT BLADES.** Set contains fine, medium and coarse 10" blades. 3 oz.  
46 N 091. PER SET.....21c

**P FORSBERG V-35 FOUR-WAY KEYHOLE HACKSAW.** 7 1/2" blade. Cuts metal, wood, plaster. Can be faced in 4 directions. Shpg. wt., 6 oz.  
46 N 341. NET.....34c

**EXTRA BLADE.** Shpg. wt., 2 oz.  
46 N 342. NET EACH.....14c



## X-ACTO KNIVES

**NO. 1 KNIFE.** For light to medium work. Aluminum handle, 5" long and 3/8" dia. Uses include: stripping insulation from cable; correcting printed circuit boards, etc. With No. 11 blade. 3 oz.  
50 N 608. NET.....53c  
50 N 610. No. 11 Blade. Wt., 2 oz.  
PKG. OF 5.....53c  
50 N 609. No. 10 Blade. Wt., 2 oz.  
PKG. OF 5.....53c

**R RULSTER K-29W ELECTRICIAN'S KNIFE.** Two 2 1/2" blades: screwdriver-wirescraper; spear shape. Overall, 3 3/4". 5 oz.  
45 N 843. NET.....1.49

**S MILLERS FALLS KNIFE.** Cuts rubber, linoleum, etc. 5 blades. 5" long. 1/2 lb.  
46 N 308. NET.....75c  
50 N 171. Pkg. of 5 Blades. 2 oz.....37c

**MILLERS FALLS CHISEL SET**  
MODEL 1434. Kit of four wood chisels. Thin, keen-edged blades for deeper, more efficient cutting action. High-carbon steel blades; plastic handles. All handles, 3 3/4"; overall length, 6 7/8". Blade widths, 1/4", 1/2", 3/4" and 1". Supplied with convenient red and gray carrying case. Shpg. wt., 1 1/2 lbs.  
50 N 217. List, \$7.25. NET. 5.44

## KNISLEY MINIATURE DRILL SET

**TYPE KS-1115 CARBON DRILL SET.** Set consists of 20 drills in a variety of sizes from No. 61 (.030") to No. 80 (.0135"). All highest grade carbon steel. Included with the set is a 4-jaw chuck with 1/8" shank for using drills in standard chucks. Entire set is covered by transparent molded lucite case. Various drills are always in sight for fast, easy reference. Shpg. wt., 6 oz.  
46 N 799. NET.....6.29

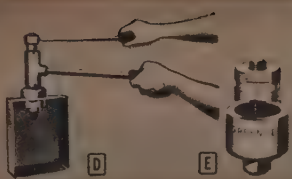
## PUNCH AND CHISEL SET

**VLCHEK TYPE 3256.** An excellent low cost set for hobbyists. Forged from high carbon tool steel. Contains 1/2" and 3/8" edge chisels, 1/4" and 1/8" solid punches and 1/4" center punch. All units are bright plated. Supplied complete with plastic pouch. Shpg. wt., 3/4 lb.  
50 N 125. NET.....1.39



# Finest Quality Workshop Tools

## GREENLEE CHASSIS PUNCHES



364

**SERIES 731 SQUARE PUNCHES.** For mounting square chassis components. Made of 1 grade tool steel. Have four cutting edges use with sheet metal, bakelite or hard ber. Cut holes in metal up to 16 gauge in kness. Drive screw requires  $\frac{1}{2}$ " hole. Operate with ordinary wrench for drive ver. Wt., 2 lbs.

N 269. For  $\frac{1}{2}$ " hole. NET.....4.10  
N 276. For  $\frac{3}{8}$ " hole. NET.....4.16  
N 277. For  $\frac{1}{2}$ " hole. NET.....4.74  
N 278. For 1" hole. NET.....5.63

**SERIES 732 KEYED PUNCHES.** Insert punch in small drilled hole, turn with an ordinary wrench. Require  $\frac{1}{2}$ " hole except  $\frac{1}{4}$ " e. Av. shpg. wt.,  $\frac{1}{2}$  lbs.

| ck No. | Size             | NET  | Stock No. | Size              | NET  |
|--------|------------------|------|-----------|-------------------|------|
| N 214  | $\frac{1}{8}$ "  | 4.41 | 46 N 186  | $\frac{11}{16}$ " | 4.98 |
| N 184  | $\frac{1}{16}$ " | 4.41 | 46 N 189  | $\frac{11}{16}$ " | 5.40 |

**BALL-BEARING DRIVE SCREWS.** For Type 730 punches (at right). Av. shpg. wt., 1 lb.

322-88. For  $\frac{1}{16}$ ",  $\frac{3}{16}$ ",  $\frac{1}{2}$ " punches.

N 018. NET.....88 c

112-88. For 1" and  $1\frac{1}{2}$ " punches.

N 019. NET.....97 c

249-88. For  $\frac{1}{2}$ ",  $1\frac{1}{2}$ " and  $1\frac{3}{4}$ " punches.

N 168. NET.....2.11

304-88. For  $2\frac{1}{2}$ " punch.

N 169. NET.....2.30

**CLACEMENT CAP SCREWS FOR ROUND LE PUNCHES.** Shpg. wt., 4 oz.

| ck No. | Size | For Punch Size | NET |
|--------|------|----------------|-----|
|--------|------|----------------|-----|

N 182  $\frac{1}{8}$ "  $\frac{1}{8}$ " to  $\frac{1}{4}$ " 26c

N 183  $\frac{1}{16}$ "  $\frac{1}{16}$ " to  $\frac{1}{8}$ " 26c

N 168  $\frac{1}{8}$ "  $1\frac{1}{2}$ " to  $1\frac{3}{4}$ " (except  $1\frac{1}{2}$ ") 30c

N 299  $\frac{1}{8}$ "  $1\frac{1}{2}$ " to  $1\frac{3}{4}$ " 44c

N 343  $\frac{1}{8}$ "  $1\frac{1}{2}$ " to  $2\frac{1}{2}$ " 53c

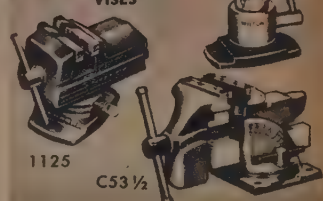
**D RATCHET KNOCKOUT PUNCH DRIVER.** Lightweight knockout punch driver for use with standard punches  $\frac{1}{4}$ " to 3" and Greenlee No. 730 punches  $\frac{1}{16}$ " and larger. Fast cutting action in 10-gauge or lighter material. Includes knockout driver assembly; leverage handle; ratchet handle; 3 adapter screws for  $\frac{1}{2}$ "-3" knockout punches and round punches  $\frac{1}{16}$ "-2 $\frac{1}{2}$ ". Packed in durable metal carrying case. Less punches. Shpg. wt., 13 lbs.

47 N 017. No Money Down. NET...48.51

**E SERIES 730 ROUND PUNCHES.** For sockets, controls, panel lights, etc. Cut through sheet metal, bakelite, hard rubber, etc. Cut through metals up to 16-gauge thickness. Operate with ordinary wrench; no reaming or filing required. \*Meter cut-out. Av. shpg. wt.,  $\frac{1}{2}$  lbs.

| Stock No. | Hole Size        | Lead Size        | NET EACH |
|-----------|------------------|------------------|----------|
| 46 N 169  | $\frac{1}{8}$ "  | $\frac{1}{8}$ "  | 2.29     |
| 46 N 177  | $\frac{1}{4}$ "  | $\frac{1}{4}$ "  | 2.29     |
| 47 N 014  | $\frac{1}{8}$ "  | $\frac{1}{8}$ "  | 2.29     |
| 46 N 000  | $\frac{1}{16}$ " | $\frac{1}{16}$ " | 2.29     |
| 46 N 170  | $\frac{3}{4}$ "  | $\frac{3}{4}$ "  | 2.29     |
| 46 N 001  | $\frac{1}{8}$ "  | $\frac{1}{8}$ "  | 2.29     |
| 46 N 171  | $\frac{1}{4}$ "  | $\frac{1}{4}$ "  | 2.29     |
| 47 N 015  | $\frac{1}{8}$ "  | $\frac{1}{8}$ "  | 2.51     |
| 46 N 172  | 1"               | 1"               | 2.51     |
| 46 N 178  | $1\frac{1}{2}$ " | $1\frac{1}{2}$ " | 2.65     |
| 46 N 173  | $1\frac{1}{2}$ " | $1\frac{1}{2}$ " | 2.65     |
| 46 N 179  | $1\frac{1}{2}$ " | $1\frac{1}{2}$ " | 2.65     |
| 46 N 174  | 1"               | 1"               | 2.65     |
| 46 N 175  | $1\frac{1}{2}$ " | $1\frac{1}{2}$ " | 2.65     |
| 46 N 176  | $1\frac{1}{2}$ " | $1\frac{1}{2}$ " | 3.18     |
| 46 N 180  | $1\frac{1}{2}$ " | $1\frac{1}{2}$ " | 3.62     |
| 46 N 011  | $1\frac{1}{2}$ " | $1\frac{1}{2}$ " | 4.28     |
| 46 N 110  | $1\frac{1}{2}$ " | $1\frac{1}{2}$ " | 6.52     |
| 46 N 116  | 2"               | 2"               | 6.52     |
| 46 N 181  | $2\frac{1}{2}$ " | $2\frac{1}{2}$ " | 7.02     |
| 47 N 016  | $2\frac{1}{2}$ " | $2\frac{1}{2}$ " | 11.47    |
| 46 N 209  | $2\frac{1}{2}$ " | $2\frac{1}{2}$ " | 11.02    |

**WILTON SHOP AND BENCH VISES**



**MODEL 665A VISE.** Three rapid-acting vises—woodworking, metalworking and pipe vise all rolled into one. Removable fiber-board jaw faces clamp wood without marring ring. 5" wide steel jaws provide powerful grip for metal jobs. Built-in pipe jaws hold pipes of  $\frac{1}{4}$ " to  $2\frac{1}{2}$ " dia. Jaws are  $3\frac{1}{4}$ " deep. Max. jaw opening,  $5\frac{1}{4}$ ". Swivel base. Enamel finish. Shpg. wt., 13 lbs.

46 NU 953. List, \$24.30. NET.....16.20

**MODEL 364 VISE AND POSITIONER.** Ruggedly-built utility vise mounted on famous PowRarm positioner. Excellent combination for work on small electronic assemblies or parts. Single-handed release of positioner level-bar permits rotating or tilting work to any desired angle. Positioner is cadmium-plated steel. Capacity, 15 lbs. Vise jaws are smooth steel,  $2\frac{1}{4}$ " wide; open to  $2\frac{1}{4}$ ". Shpg. wt., 5 lbs.

50 N 149. NET.....13.93

**MODEL 1125.** Removable steel jaws open to a maximum of  $2\frac{1}{4}$ " jaw width,  $2\frac{1}{4}$ ". Opening and closing controlled by slide-bar. Thumbscrew locks swivel base in place. 2 mtg. holes in base. Shpg. wt.,  $5\frac{1}{4}$  lbs.

46 N 896. List, \$5.30. NET.....3.67

**MODEL C53 1/2.** Economy model  $3\frac{1}{2}$ " jaw vise. Features removable steel insert jaws, built-in pipe jaws, precision-machined screw. Swivel base allows unit to be swung instantly to any desired position. Thumbscrew locks base securely in place. Large anvil with forming horn. Wt., 12 lbs.

50 N 487. List, \$9.90. NET.....5.30

**MODEL C54.** As above, but 4" jaw. 15 lbs.

50 N 488. List, \$11.60. NET.....6.25

**MODEL C55.** Same as C53 1/2 above, but  $4\frac{1}{2}$ " jaw width. Shpg. wt., 19 lbs.

50 N 489. List, \$13.60. NET.....7.30

## NEW HP MODEL 500 NUT CRACKING TOOL

Has dozens of everyday applications. Handles every size nut from  $\frac{1}{8}$ " to  $\frac{1}{2}$ "—cannot damage the bolt. Easy to use; set chisel at right angle to the flat of the nut—grip firmly—then swing ratchet on forcing screw. Provides up to 25,000 lbs. pressure. Shpg. wt.,  $\frac{1}{4}$  lbs.

50 N 583. NET. 5.95



## ADEL METAL "NIBBLING" TOOL

"Nibbles" holes, slots or openings in sheet metal. A real time-saver; leaves smooth, flat edge on holes. Exceptionally handy device easily munches 18-gauge steel or aluminum and other soft metals up to  $\frac{1}{8}$ " thick. Minimum hole size,  $\frac{7}{16}$ " diameter. Durable construction; easy to use. Shpg. wt., 8 oz.

43 N 863. 12-Up, Ea. 3.60 1-11, Ea. 3.85

**REPLACEMENT PUNCH FOR ABOVE.** Easy to install. Shpg. wt., 2 oz.

50 N 130. NET.....1.67



## GENERAL HARDWARE ORCLE CUTTERS

Round shank types for drill press; square shank for hand brace. Removable pilot drill and cutter blade. Av. shpg. wt., 8 oz.

| Stock No. | Fig. | Shank                  | Hole Size                           | NET  |
|-----------|------|------------------------|-------------------------------------|------|
| 45 N 600  | H    | Round $\frac{1}{4}$ "  | $\frac{7}{16}$ " to 4"              | 1.69 |
| 45 N 602  | K    | Square $\frac{1}{4}$ " | $\frac{1}{8}$ " to $5\frac{1}{2}$ " | 2.10 |
| 45 N 603  | H    | Round $\frac{3}{8}$ "  | $\frac{1}{8}$ " to $5\frac{1}{2}$ " | 2.10 |
| 45 N 350  | H    | Round $\frac{1}{2}$ "  | $\frac{1}{8}$ " to $5\frac{1}{2}$ " | 2.10 |
| 45 N 351  | H    | Round $\frac{3}{4}$ "  | $\frac{1}{4}$ " to 8"               | 4.64 |

45 N 610. Extra Blades. 4 oz. NET EACH 44 c

## CLARK ORCLE CUTTER

**J TYPE 110.** Cuts holes  $\frac{3}{8}$ " to  $1\frac{1}{2}$ " in dia., in metals up to  $\frac{1}{8}$ " thick.  $\frac{1}{4}$ " pilot drill with  $\frac{1}{4}$ " round shank. 5 oz.

45 N 620. NET.....3.67



**J MILLERS FALLS NO. 217 VISE.** Sturdy steel jaws are  $2\frac{1}{2}$ " wide. Parallel faces extend to  $3\frac{1}{2}$ ". Removable swivel jaw for holding d-shaped parts. Shpg. wt., 5 lbs.

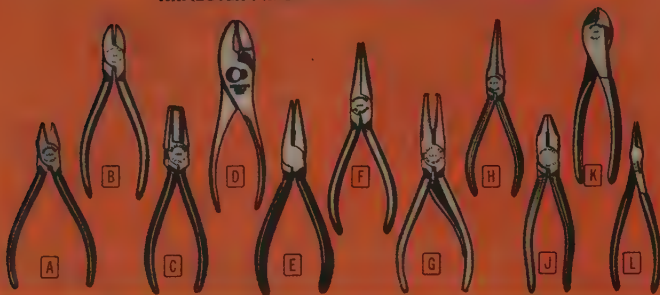
6 N 064. NET.....8.90

**J BRINK & COTTON NO. 149 VISE.** Highly versatile. Can be clamped to any bench or table up to 2" thick. Jaws are  $1\frac{1}{2}$ " wide; open  $1\frac{1}{2}$ ". Free-action tightening bar connected to drive screw. Shpg. wt.,  $2\frac{3}{4}$  lbs.

6 N 015. NET.....1.50

# Top-Quality Hand Tools

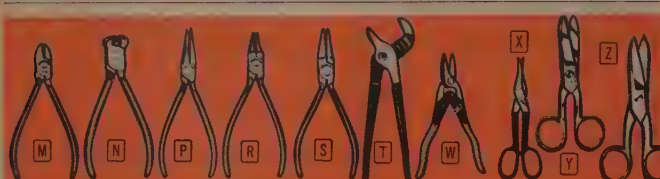
## KRAEUTER PRECISION-BUILT INDUSTRIAL TOOLS



Famous Kraeuter tools—for radio-TV work, servicemen, technicians, production lines—wherever highest quality is desired.

Hammer-forged from high-grade tool steel, all have vinylite "Cushion-Grip" handles and polished heads. Av. shpg. wt., 1 lb.

| Stock No. | Fig. | Type   | Description                                     | 1-5, EA. | 6-Up, EA. |
|-----------|------|--------|-------------------------------------------------|----------|-----------|
| 50 N 110  | A    | CG4625 | 5" Needle Point Diagonal Cutters with Spring    | 3.45     | 3.13      |
| 50 N 433  | B    | CG4501 | 4 1/4" Narrow Head Diagonal "Oblique" Cutters   | 2.17     | 1.96      |
| 46 N 402  | B    | CG4501 | 5" Narrow Head Diagonal "Oblique" Cutters       | 2.35     | 2.13      |
| 46 N 403  | B    | CG4501 | 6" Narrow Head Diagonal "Oblique" Cutters       | 2.72     | 2.47      |
| 46 N 414  | A    | CG2612 | 6 1/2" Wire-Stripping Diag. Cutters (w/spring)  | 3.39     | 3.08      |
| 50 N 113  | C    | CG5627 | 5 1/4" Resistor Terminal End-Cutting Pliers     | 3.63     | 3.30      |
| 50 N 329  | D    | CG356  | 5 1/2" Combination Pliers                       | 1.95     | 1.77      |
| 50 N 330  | E    | CG1641 | 5" Short Chain Needle-Nose Pliers (with cutter) | 2.46     | 2.24      |
| 46 N 401  | E    | CG1661 | 6" Long Chain Needle-Nose Pliers (with cutter)  | 2.68     | 2.43      |
| 46 N 404  | E    | CG1671 | 6" Long Chain Needle-Nose Pliers (no cutter)    | 2.09     | 1.90      |
| 50 N 331  | E    | CG1781 | 7" Long Chain Needle-Nose Pliers (with cutter)  | 3.23     | 2.93      |
| 46 N 419  | F    | CG1663 | 6" Radio and Ignition Nose-Cutting Pliers       | 3.56     | 3.23      |
| 50 N 112  | G    | CG1650 | 6" Long Jaw End-Cutting Pliers (w/spring)       | 3.56     | 3.23      |
| 46 N 413  | H    | CG1741 | 6" Long Flat-Nose Pliers (no cutter)            | 2.26     | 2.05      |
| 50 N 332  | J    | CG1801 | 6" Linemen's Side-Cutting Pliers                | 3.12     | 2.84      |
| 46 N 408  | J    | CG1801 | 8 1/4" Linemen's Side-Cutting Pliers            | 3.79     | 3.43      |
| 46 N 400  | K    | CG1830 | 6 1/2" Electrician's Side-Cutting Pliers        | 2.43     | 2.13      |
| 46 N 410  | L    | CG1610 | 7" Heavy-Duty Diagonal Cutters                  | 2.62     | 2.38      |
| 50 N 111  | L    | CG71   | 8" Long Reach Short-Jaw Nose-Cutting Pliers     | 3.66     | 3.32      |



### KRAEUTER 4 1/2" JEWELER'S PLIERS

Cushioned grips for comfortable, fatigue-free use. Smooth-polished, high-quality steel. Type CG81 for close cutting of small, soft wires, CG82 is for end cutting as in printed circuit assemblies. CG83, 84 and 85 have smooth jaws. Av. shpg. wt., 5 oz.

| Stock No. | Fig. | Type | Description   | 1-5, EA. | 6-Up, EA. |
|-----------|------|------|---------------|----------|-----------|
| 46 N 411  | M    | CG81 | Diag. Cutting | 2.50     | 2.27      |
| 50 N 333  | N    | CG82 | End Cutting   | 2.30     | 2.04      |
| 46 N 415  | P    | CG83 | Chain Nose    | 2.35     | 2.13      |
| 46 N 417  | R    | CG85 | Round Nose    | 2.35     | 2.13      |
| 46 N 416  | S    | CG84 | Flat Nose     | 2.35     | 2.13      |

### KRAEUTER PLIERS AND SNIPS

**T** TYPE CG710 5-POSITION SLIP-JOINT PLIERS. Five parallel adjustments allow settings from 3/4" to 1 1/2". Milled teeth assure firm, non-slip gripping. Grips are cushioned for comfort during extended use. Polished finish. Length, 10". Shpg. wt., 10 oz.

46 N 421. NET. 2.57

**W** TYPE CG53 PATTERN SNIPS. For sheet metals; cuts up to 18-gauge cold rolled steel. Serrated steel blades. Uniform cutting action over entire blade length. With comfortable cushion-grip handles. Length, 10". Shpg. wt., 1 lb.

50 N 334. NET. 3.23

**X** TYPE K-13 PATTERN SNIPS. Cut either curved or straight lines in sheet metal, plastics, rubber, leather, etc. Drop forged from top-quality tool steel. Uniform cutting action over entire length. Only 7" long; 1 1/2" cut. Shpg. wt., 7 oz.

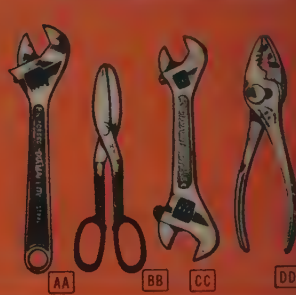
46 N 422. NET. 1.76

### CLAUSSEN INDUSTRIAL SCISSORS

Type 925 (Fig. Y) are electrician's scissors. Type 925C (Fig. Z) same, but has wire stripping notches on back of blade. Type 4217 (not illus.) is industrial shears; Type 4218 is identical but larger.

| Stock No. | Mfr's Pat. | Type | Length | Cut Length | Wt.  | NET EACH |
|-----------|------------|------|--------|------------|------|----------|
| 45 N 896  | 925        | 5"   | 1 1/4" | 3          | 1.84 |          |
| 45 N 842  | 925C       | 5"   | 1 1/4" | 3          | 2.14 |          |
| 46 N 305  | 4217       | 7"   | 3 1/4" | 5          | 3.31 |          |
| 46 N 304  | 4218       | 8"   | 4"     | 6          | 3.67 |          |

## UTICA ADJUSTABLE WRENCHES



**AA** TYPE 91. Drop-forged from tough alloy steel. Thumbscrew adjustment. Chrome finished head. \*Tip thickness.

| Stock No. | *Thickness | Size | Jaw Open | Shpg. Wt.  | NET EACH |
|-----------|------------|------|----------|------------|----------|
| 46 N 481  | 1/8"       | 4"   | 1 1/2"   | 2 oz.      | 1.93     |
| 46 N 482  | 3/8"       | 6"   | 2 1/2"   | 4 1/2 oz.  | 1.93     |
| 46 N 483  | 1/2"       | 8"   | 3 1/2"   | 8 oz.      | 2.22     |
| 46 N 484  | 5/8"       | 10"  | 4 1/2"   | 1 lb.      | 2.78     |
| 46 N 485  | 3/4"       | 12"  | 5 1/2"   | 1 1/2 lbs. | 4.10     |

### UTICA STRAIGHT-CUT TIN SNIPS

**BB** TYPE 270. Powerful, lever action makes cutting easier and faster. Forged steel construction. Ring-type handles. Length, 7". Shpg. wt., 12 oz.

46 N 490. NET. 1.79

### DIAMOND ADJUSTABLE WRENCH

**CC** TYPE DB-76. Double-ended 6" wrench. Capacities are 1/2" and 3/4". 1/2" jaws are 1/8" at tip with 3/8" maximum head thickness; 3/4" jaws are 1/2" at tip with 1 1/2" maximum head thickness. Sturdy, drop-forged tool steel. Shpg. wt., 6 oz.

45 N 770. NET. 2.74

### DIAMOND SLIP-JOINT PLIERS

**DD** Have handy wire-cutting groove. Non-slip grip on large or small objects. Nickel-chrome plated. \*Side-cutting action.

| Stock No. | Type  | Description                  | Wt.   | NET  |
|-----------|-------|------------------------------|-------|------|
| 50 N 116  | K-15  | 5" Long, 3/4" Jaw Capacity   | 9 oz. | .80  |
| 46 N 460  | K-16  | 6" Long, 1" Jaw Capacity     | 8 oz. | .87  |
| 50 N 337  | *P-17 | 7" Long, 1 1/4" Jaw Capacity | 9 oz. | 1.41 |
| 50 N 117  | K-18  | 8" Long, 1 1/2" Jaw Capacity | 9 oz. | 1.41 |

### VLCEK DOUBLE-END WRENCH SETS



TYPE X2564. 5-piece set. Ten openings, 1 1/2" and 3/8", 7/8" and 3/4", 5/8" and 1/2", 1/2" and 3/8", 1/4" and 1/8". Wt., 3/4 lb.

46 N 265. NET. 1.43

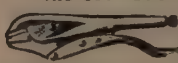
TYPE X2567. As above, but 3/8" to 7/8", 3/4" and 1/2", 1/2" and 3/8", 1/4" and 1/8". Wt., 1 1/4 lbs.

46 N 266. NET. 1.79

TYPE X3412. 5-piece set and box. 3/8" to 1 1/2", 1/2" and 3/8", 3/4" and 1/2", 1/4" and 1/8". Wt., 3/4 lb.

50 N 120. NET. 2.10

### "TRU-CUT" LOCK WRENCH



TYPE 10-DC. Applies up to 1000 lbs. of pressure. Fingertip release opens wrench instantly. May be set for sizes up to 1 1/2". 10" length. Shpg. wt., 1 1/4 lbs.

46 N 434. NET. 1.72

### KRAEUTER JEWELER'S PLIER SETS



- Cushion-Grip Handles
- Machined From Tool Steel

TYPE CG90. Set consists of one each: CG81 diagonal cutters; CG82 end cutters; CG83 chain-nose pliers; CG84 flat-nose pliers; and CG85 round-nose, round-jaw pliers. Zipper case. Shpg. wt., 1 1/4 lbs.

46 N 423. NET. 14.34

TYPE CG89. (Not illus.) Set consists of one each: CG81 diagonal cutting pliers; CG84 flat-nose pliers; Type 83 chain-nose pliers. With case. Shpg. wt., 1 lb.

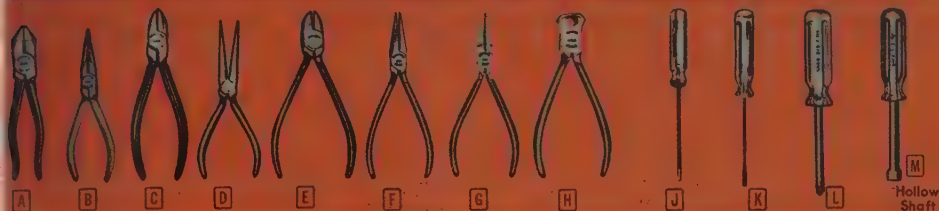
46 N 435. NET. 9.19



# Pliers, Screwdrivers, Cutters, Wrenches

## KNIGHT HAND TOOLS

A high-quality line of hand tools made especially for Allied by leading domestic tool manufacturers. Carefully manufactured to Allied's rigid specifications, they are your finest hand tool values. Industrial plants, schools and shops are invited to take advantage of the quantity prices shown.



### NIGHT TOP-VALUE PLIERS

Unsurpassed Tool Values  
One-Year Guarantee  
High-Grade Carbon Steel  
Made by Leading Manufacturer

Below is a selection of the most popular types used in service shops, laboratories and production lines. Rigid quality control in each step of production assures excellent quality and dependability. Drop-forged from high-grade carbon steel and heat-treated for optimum temper, abrasion and wear; built for years of service. Precision machined, fitted and tested for smooth action and maximum ease of handling. All have cushion-grip. Av. shpg. wt., 10 oz.

| Fig. | Description                  | NET EACH |      |
|------|------------------------------|----------|------|
|      |                              | 1-5      | 6-Up |
| 1    | A 6½" Side-cutting pliers    | 1.89     | 1.68 |
| 2    | B 6" Chain-nose with cutters | 2.10     | 1.86 |
| 3    | C 5" Chain-nose pliers       | 1.72     | 1.52 |
| 4    | D 6" Diagonal cutting pliers | 1.84     | 1.63 |
| 5    | E 6" Diagonal cutting pliers | 2.12     | 1.88 |
| 6    | F 7" Chain-nose with cutters | 2.50     | 2.23 |

### KNIGHT JEWELER'S PLIERS

- Plastic Cushion Grips
- Selected Tool Steel
- One-Year Guarantee
- Made by Leading Manufacturer

Precision-made pliers for work on miniaturized electronic assemblies and all types of delicate mechanisms. Feature comfortable plastic cushion grips for long hours of continuous, fatigue-free use. Widely used by engineers, electronic technicians, watchmakers, hobbyists, etc. Drop-forged from high-quality tool steel and heat-treated for maximum hardness and durability. Accurately machined for smooth action. "Chain-nose" and flat-nose pliers have smooth jaws with no cutters; both have 1½" inside length, chain-nose tapers to ½" point, flat-nose to ⅜" point. Av. shpg. wt., 5 oz.

| Stock No. | Fig. | Description                 | NET EACH |      |
|-----------|------|-----------------------------|----------|------|
|           |      |                             | 1-5      | 6-Up |
| 45N 370   | E    | 4½" Diagonal Cutting Pliers | 2.05     | 1.82 |
| 45N 371   | F    | 4½" Chain-Nose Pliers*      | 1.92     | 1.72 |
| 45N 372   | G    | 4½" Flat-Nose Pliers*       | 1.92     | 1.72 |
| 45N 373   | H    | 4½" End-Cutting Pliers      | 2.35     | 2.12 |

### KNIGHT SCREWDRIVERS

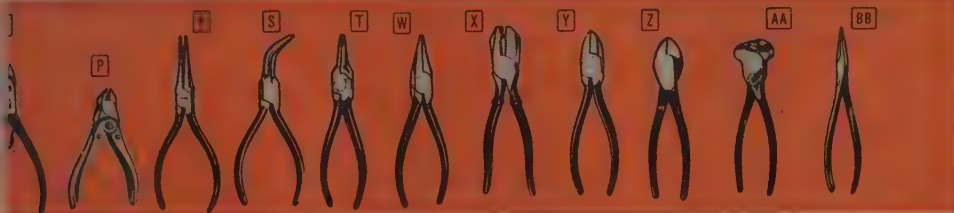
Tough chrome-vanadium steel shafts in rugged "Ambryl" plastic handles. \*No. 1 Phillips. †No. 2 Phillips. ‡With pocket clip.

| Stock No. | Fig. | Shaft | Lgth. | Wt.   | 1-5, EA. | 6-Up, EA. |
|-----------|------|-------|-------|-------|----------|-----------|
| 45N 374   | J    | ¼x4"  | 6½"   | 2 oz. | .33      | .29       |
| 45N 375   | J    | ¼x6"  | 8½"   | 2 oz. | .36      | .31       |
| 45N 376   | J    | ¼x8"  | 10½"  | 2 oz. | .44      | .39       |
| 45N 377   | J    | ¼x4"  | 7½"   | 4 oz. | .63      | .55       |
| 45N 378   | J    | ¼x6"  | 9½"   | 4 oz. | .68      | .60       |
| 45N 379   | J    | ¼x8"  | 11½"  | 7 oz. | .71      | .63       |
| 45N 380   | K    | ⅜x3"  | 5½"   | 2 oz. | .26      | .24       |
| 45N 381   | K    | ⅜x3"  | 4½"   | 2 oz. | .22      | .20       |
| 45N 382   | L    | ⅜x3"  | 6½"   | 2 oz. | .60      | .53       |
| 45N 383   | L    | ¼x4"  | 7½"   | 6 oz. | .71      | .63       |

### KNIGHT HEX NUTDRIVERS

Steel shafts in rugged "Ambryl" plastic handles; hardened sockets.

| Stock No. | Nut Size | Length | Wt.   | 1-5, EA. | 6-Up, EA. |
|-----------|----------|--------|-------|----------|-----------|
| 45N 384   | ⅜"       | 6½"    | 2 oz. | .68      | .60       |
| 45N 385   | ½"       | 6½"    | 2 oz. | .68      | .60       |
| 45N 386   | ⅝"       | 6½"    | 2 oz. | .68      | .60       |
| 45N 387   | 1½"      | 6½"    | 2 oz. | .68      | .60       |
| 45N 388   | ¾"       | 6½"    | 2 oz. | .68      | .60       |
| 45N 389   | 7/16"    | 6½"    | 4 oz. | .83      | .74       |
| 45N 390   | ½"       | 6½"    | 6 oz. | .83      | .74       |



### UTICA HIGH-QUALITY CUTTERS AND PLIERS

wiring, repair work and assembly jobs are easier with these quality tools by Utica. Scientifically controlled heat-treating and grinding of the finest tool steels assure superior quality—and uniform performance. Ideal for use by manufacturers, servicemen and hobbyists.

| Fig.  | Type | Description                                 | NET  |
|-------|------|---------------------------------------------|------|
| 101   | N    | 4½" Midgert, Scissors-Type Snips            | 2.81 |
| 470-5 | P    | 5" Printed Circuit Cutting & Crimping Snips | 3.46 |
| 775   | R    | 5½" Long-Nose Pliers                        | 2.53 |
| 777   | R    | 6" Long Needle-Nose Pliers                  | 2.58 |
| 888   | S    | 6" Curved Needle-Nose Pliers                | 2.70 |
| 896   | T    | 6" Cutting and Stripping Pliers             | 3.09 |

Precision-fit joints provide smooth, positive action for exceptional ease of handling. Accurate cutting and gripping are assured by careful alignment of jaws and cutting edges. Handles are of proper size and shape for comfortable grip and balance. Av. shpg. wt., 10 oz.

| Stock No. | Fig. | Type | Description                      | NET  |
|-----------|------|------|----------------------------------|------|
| 46N 478   | W    | 2291 | 6" Insulation Stripping Pliers   | 2.58 |
| 46N 489   | X    | 3950 | 6" Linemen's Side Cutters        | 3.46 |
| 46N 470   | Y    | 45   | 6" Aviation Diagonal Cutters     | 2.83 |
| 46N 471   | Z    | 40   | 7" High Leverage Diagonal Pliers | 2.59 |
| 46N 474   | A    | 260  | 7" End-Cutting Nippers           | 3.09 |
| 46N 477   | BB   | 82   | 8" Assembly Pliers, Needle Nose  | 2.46 |

### CHECK HEX-KEY WRENCH SET

Chrome steel  
in a steel  
like pocket knife  
Size, .050" to  
shpg. wt., 4 oz.  
28. NET. 88c

### OFFSET SCREWDRIVERS

135. For Phillips  
4 oz. NET. 54c  
43. For standard  
4½" long. 4 oz. NET. 54c

### WALSCO HEX AND SPLINE WRENCHES

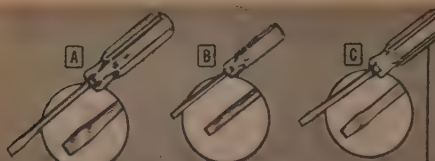
7 Allen and 4 Bristol key-type, L-shaped wrenches fit screws ranging in size from No. 2 to ⅜". Packed in leatherette case. Shpg. wt., ½ lb.  
46N 166. NET. 1.32

### H. H. SMITH WRENCH SET

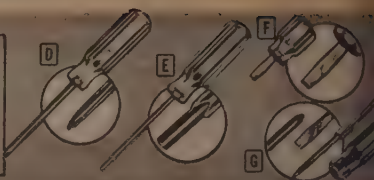
6 Allen wrenches to fit Nos. 4, 5, 6, 8 and 10 as well as ¼" and ⅜" size. Leatherette case. Shpg. wt., 3 oz.  
46N 072. 1-11, NET EACH. 71c  
12 Sets or More, Each. 64c



# Famous Xcelite Screwdrivers and Nutdrivers



High-quality screwdrivers in a variety of sizes, shapes and types. All have chrome vanadium steel shafts imbedded in Xcelite plastic handles.



**A** ROUND SHAFT SCREWDRIVERS. Winged design prevents turning of blade in handle. In lengths from  $\frac{3}{4}$ " to 12".

| Stock No. | Mfr's Type | Shaft Size      |        | Overall Length     | Shpg. Wt. | NET EACH |
|-----------|------------|-----------------|--------|--------------------|-----------|----------|
|           |            | Dia.            | Length |                    |           |          |
| 43 N 845  | R-182      | $\frac{1}{8}$ " | 2"     | 4 $\frac{1}{2}$ "  | 3 oz.     | .33      |
| 43 N 846  | R-184      | $\frac{1}{8}$ " | 4"     | 6 $\frac{1}{2}$ "  | 3 oz.     | .39      |
| 43 N 847  | R-186      | $\frac{1}{8}$ " | 6"     | 8 $\frac{1}{2}$ "  | 4 oz.     | .42      |
| 43 N 848  | R-188      | $\frac{1}{8}$ " | 8"     | 10 $\frac{1}{2}$ " | 4 oz.     | .54      |
| 43 N 795  | R-144      | $\frac{1}{8}$ " | 4"     | 8"                 | 6 oz.     | .78      |
| 43 N 796  | R-146      | $\frac{1}{8}$ " | 6"     | 10"                | 6 oz.     | .84      |
| 43 N 797  | R-148      | $\frac{1}{8}$ " | 8"     | 12"                | 7 oz.     | .90      |

**B** SET-SCREW TYPE SCREWDRIVERS. Narrow-blade screwdrivers fit standard set-screws in knobs, pulleys, etc. Have pocket clips.

|          |         |                 |    |    |       |     |
|----------|---------|-----------------|----|----|-------|-----|
| 43 N 830 | R-323SS | $\frac{1}{8}$ " | 3" | 5" | 2 oz. | .27 |
| 43 N 831 | R-184SS | $\frac{1}{8}$ " | 4" | 6" | 2 oz. | .39 |

**C** SQUARE-SHAFT SCREWDRIVERS. Lengths from  $\frac{7}{8}$ " to 18".

| Stock No. | Mfr's Type | Shaft Size      |        | Overall Length     | Shpg. Wt.            | NET EACH |
|-----------|------------|-----------------|--------|--------------------|----------------------|----------|
|           |            | Dia.            | Length |                    |                      |          |
| 43 N 829  | S-3164     | $\frac{1}{8}$ " | 4"     | 7 $\frac{1}{2}$ "  | 4 oz.                | .69      |
| 43 N 832  | S-144      | $\frac{1}{8}$ " | 4"     | 6"                 | 6 oz.                | .87      |
| 43 N 833  | S-146      | $\frac{1}{8}$ " | 6"     | 10"                | 6 oz.                | .93      |
| 43 N 834  | S-148      | $\frac{1}{8}$ " | 8"     | 12"                | 10 $\frac{1}{2}$ lb. | 1.02     |
| 43 N 837  | S-388      | $\frac{1}{8}$ " | 8"     | 12 $\frac{1}{2}$ " | 1 $\frac{1}{2}$ lb.  | 1.38     |
| 43 N 838  | S-3812     | $\frac{1}{8}$ " | 12"    | 18"                | 1 $\frac{1}{4}$ lb.  | 1.98     |

**D** PHILLIPS SCREWDRIVERS. \*Stubby type. †With pocket clip.

| Stock No. | Mfr's Type | Shaft |                   | Overall Length     | Shpg. Wt. | NET EACH |
|-----------|------------|-------|-------------------|--------------------|-----------|----------|
|           |            | Tip   | *Length           |                    |           |          |
| 43 N 345  | P-12St†    | No. 0 | 2"                | 4"                 | 3 oz.     | .33      |
| 43 N 876  | X-101      | No. 1 | 3"                | 6 $\frac{1}{2}$ "  | 5 oz.     | .69      |
| 43 N 877  | X-108      | No. 1 | 6"                | 10"                | 5 oz.     | .75      |
| 43 N 878  | X-102      | No. 2 | 4"                | 7 $\frac{3}{4}$ "  | 6 oz.     | .87      |
| 43 N 879  | X-1020     | No. 2 | 10"               | 13 $\frac{3}{4}$ " | 8 oz.     | 1.17     |
| 43 N 881  | X-103      | No. 3 | 6"                | 10"                | 10 oz.    | 1.17     |
| 43 N 882  | SX-101     | No. 1 | 1 $\frac{1}{2}$ " | 2 $\frac{1}{2}$ "  | 3 oz.     | .63      |
| 43 N 883  | SX-102     | No. 2 | 1 $\frac{1}{2}$ " | 3 $\frac{1}{4}$ "  | 5 oz.     | .69      |

**E** CLUTCH HEAD SCREWDRIVERS. Fit clutch head screws used in sheet metal assemblies, electronic gear, etc.

|          |       |                 |    |                   |       |     |
|----------|-------|-----------------|----|-------------------|-------|-----|
| 50 N 144 | G-183 | $\frac{1}{8}$ " | 4" | 6 $\frac{1}{2}$ " | 3 oz. | .72 |
| 50 N 145 | G5324 | $\frac{1}{8}$ " | 4" | 7 $\frac{1}{2}$ " | 4 oz. | .81 |
| 50 N 146 | G3164 | $\frac{1}{8}$ " | 4" | 7 $\frac{1}{2}$ " | 4 oz. | .81 |

**F** STUBBY SCREWDRIVER.  $\frac{1}{4}$ " square shaft, polished blade. Ideal for work in cramped space.

|          |       |         |                   |                   |       |     |
|----------|-------|---------|-------------------|-------------------|-------|-----|
| 43 N 844 | S-141 | Regular | 1 $\frac{1}{4}$ " | 3 $\frac{1}{4}$ " | 5 oz. | .51 |
|----------|-------|---------|-------------------|-------------------|-------|-----|

**G** COMBINATION-BLADE SCREWDRIVERS.

| Stock No. | Mfr's Type | Blade Combination                     | Overall Length | Shpg. Wt. | NET EACH |
|-----------|------------|---------------------------------------|----------------|-----------|----------|
|           |            |                                       |                |           |          |
| 45 N 746  | CR1        | $\frac{1}{8}$ " Regular / #1 Phillips | 7"             | 4 oz.     |          |
| 45 N 747  | CR2        | $\frac{1}{8}$ " Regular / #2 Phillips | 7"             | 5 oz.     |          |
| 45 N 748  | CR3        | $\frac{1}{8}$ " Regular / #3 Phillips | 7"             | 10 oz.    | 1.38     |



99PR

## HEX NUTDRIVER SETS



127



137



17

## MODEL 99PR NUT & SCREWDRIVER SET

Versatile, chrome-plated 13-piece set in durable, plastic roll-up kit. Includes  $\frac{3}{16}$ ",  $\frac{1}{4}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ ",  $\frac{3}{4}$ " and  $\frac{1}{2}$ " nut drivers; 2 combination screwdrivers ( $\frac{3}{16}$ " and  $\frac{1}{2}$ " standard, No. 1 and No. 2 Phillips); plastic handle. Shpg. wt., 2 lbs.

45 N 738. List, \$14.45. NET..... 8.67

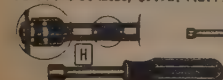
MODEL 99X10 8"-EXTENSION. For 99 series. Shpg. wt., 5 oz.

45 N 787. List, \$14.45. NET..... 87c

## MODEL 127 NUTDRIVER SET

Sockets are deep enough to handle two nuts. Depth of shaft hole,  $1\frac{1}{4}$ ". Includes 7 wrenches, sizes  $\frac{3}{16}$ " to  $\frac{3}{4}$ " in  $\frac{1}{16}$ " steps. Blades are nickel plated. Metal holder,  $7\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{2}$ ". Shpg. wt.,  $2\frac{1}{4}$  lbs.

45 N 735. List, \$9.95. NET..... 5.97



J

K

L

## HEX NUTDRIVERS

Fig. H has hollow shaft for tightening nuts on long screws. Fig. J is standard. Fig. K is stubby type for limited space. Fig. L is

| Stock No. | Mfr's Type | Fig. | Nut Size         | Handle     | Length            | NET EACH |
|-----------|------------|------|------------------|------------|-------------------|----------|
| 45 N 779  | HS-8       | H    | $\frac{3}{16}$ " | Red Orange | 6"                | .93      |
| 45 N 780  | HS-9       | H    | $\frac{1}{4}$ "  | Amber      | 6 $\frac{1}{2}$ " | .93      |
| 45 N 781  | HS-10      | H    | $\frac{5}{16}$ " | Green      | 6"                | .93      |
| 45 N 782  | HS-11      | H    | $\frac{3}{8}$ "  | Blue       | 6"                | .93      |
| 45 N 783  | HS-12      | H    | $\frac{1}{2}$ "  | Brown      | 7"                | 1.05     |
| 45 N 784  | HS-16      | H    | $\frac{3}{4}$ "  | Red        | 7"                | 1.08     |
| 45 N 785  | HS-18      | H    | $\frac{1}{2}$ "  | Orange     | 7"                | 1.14     |
| 45 N 786  | HS-20      | H    | $\frac{3}{4}$ "  | Amber      | 7"                | .76      |
| 45 N 813  | 6          | J    | $\frac{3}{16}$ " | Amber      | 6"                | .75      |

## MODEL 137 NUTDRIVER SET

7 color-coded nutdrivers with self-supporting rack. Colors and sizes: black— $\frac{3}{16}$ ", red— $\frac{1}{4}$ ", yellow— $\frac{5}{16}$ ", brown— $\frac{3}{8}$ ", blue— $\frac{1}{2}$ ", red— $\frac{5}{8}$ ", and green— $\frac{3}{4}$ ". Polished steel shafts. The  $\frac{1}{2}$ " and  $\frac{3}{4}$ " drivers have hollow shafts. Shpg. wt., 3 lbs.

45 N 734. List, \$11.10. NET..... 6.66

## MODEL 17 NUTDRIVER SET

Seven nutdrivers in commonly used sizes for radio-TV work. Sizes and colors: black— $\frac{3}{16}$ ", brown— $\frac{1}{4}$ ", red— $\frac{5}{16}$ ", blue— $\frac{3}{8}$ ", amber— $\frac{1}{2}$ ", green— $\frac{5}{8}$ " and blue— $\frac{3}{4}$ ". With metal rack. Shpg. wt.,  $2\frac{1}{2}$  lbs.

45 N 733. List, \$9.40. NET..... 5.64

MODEL 147 NUTDRIVER SET. As above, but with hollow shafts. Wt., 2 lbs.

47 N 092. List, \$9.40. NET..... 7.47

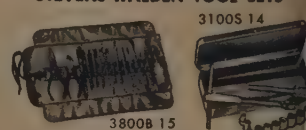


## MODEL 99SM SERVICE MASTER KIT

Meets almost every radio-TV servicing need. Set contains: long-nose pliers; diagonal pliers; 6" adjustable wrench; nine regular nutdrivers in sizes from  $\frac{3}{16}$ " through  $\frac{3}{4}$ ";  $\frac{1}{4}$ " stubby nutdriver;  $\frac{3}{16}$ " slotted screwdriver;  $\frac{3}{16}$ " slotted screwdriver; No. 1 Phillips screwdriver;  $\frac{1}{4}$ "- $\frac{3}{4}$ " reamer;  $\frac{1}{4}$ "- $\frac{3}{4}$ " reamer; 8" extension; regular handle stubby handle. Roll-up kit with pocket for each tool. Shpg. wt.,  $2\frac{1}{4}$  lbs.

43 N 884. List, \$38.15. NET..... 22.8

## STEVENS-WALDEN TOOL SETS



3100S 14

3800B 15

MODEL 3100S 14, 14-piece socket set. Includes: universal joint handle with sliding "T" bar; one straight spin-type driver;  $\frac{1}{2}$ "- $\frac{3}{4}$ "  $\frac{1}{4}$ "- $\frac{3}{4}$ "  $\frac{1}{2}$ "- $\frac{3}{4}$ "  $\frac{1}{2}$ "- $\frac{3}{4}$ " sockets;  $\frac{3}{16}$ "- $\frac{1}{2}$ " and  $\frac{3}{8}$ " double-square sockets. Supplied complete with sturdy steel case. Shpg. wt.,  $\frac{1}{2}$  lbs.

46 N 165. NET PER SET..... 5.5

MODEL 3800B 15 "SPINTITE" 15-piece set includes 7 hex wrenches,  $\frac{3}{16}$ ",  $\frac{1}{4}$ ",  $\frac{5}{16}$ ",  $\frac{3}{8}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ " and  $\frac{3}{4}$ "; three screwdrivers; combination reamer and awl; and universal handle that holds all tool shafts, 6" long nose pliers, 5" diagonal cutters, insulated screwdriver. Shpg. wt.,  $2\frac{1}{4}$  lbs.

46 N 055. NET PER SET..... 13.5



# Selected Screwdrivers, Nutdrivers, Tool Sets

## ECONOMY TOOL KIT



### COMBINATION DRIVER SET

A complete nut and screwdriver set, in a handy pocket-sized roll. Multi-purpose, piece tool set contains 6 nut driver bits, 3 screwdriver blades and a clear amber plastic handle with an aluminum adjustable screw chuck. Blades are made of hardened and tempered tool steel, nickel plated to prevent rusting. Nut driver blades for hex sizes  $\frac{1}{16}$ ",  $\frac{1}{8}$ ",  $\frac{3}{16}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ ",  $\frac{3}{4}$ ",  $\frac{7}{8}$ ",  $\frac{1}{2}$ " recess No. 2,  $\frac{1}{2}$ "x $\frac{3}{4}$ " cabinet type. Plastic roll case has size markings under hex compartments. Convenient tie string. Shpg. wt., 1 lb.

N 463. NET.....1.69

### 5-IN-1 SCREWDRIVER SET

Screwdriver set containing five most commonly-used screwdriver types. In-changeable blades are easily inserted into aluminum screw chuck of the shockproof, unbreakable amber plastic handle. Hardened and tempered tool steel blades nickel plated. Set contains:  $\frac{1}{4}$ "x $\frac{3}{4}$ " (nut blade);  $\frac{1}{4}$ "x $\frac{3}{4}$ " cabinet blade; Phillips No. 1 ( $\frac{1}{4}$ "x $\frac{3}{4}$ " blade); Phillips No. 2 ( $\frac{1}{4}$ "x $\frac{3}{4}$ " blade);  $\frac{1}{4}$ "x $\frac{3}{4}$ " keystone blade; and 1" standard blade. Includes durable plastic roll holder. Shpg. wt., 8 oz.

N 096. NET.....64c

## SELECTED TOOLS AND SETS



### FLEXIBLE-DRIVE SOCKET SET

Excellent wrench set for use in hard-to-get-at places. Flexible shaft is made of high, laminated steel wires. Thick cadmium-plating. Shockproof, sure-grip amber handle. Overall length, 8 $\frac{3}{4}$ ". Includes six sockets, sizes:  $\frac{1}{4}$ ",  $\frac{3}{8}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ ",  $\frac{3}{4}$ ",  $\frac{7}{8}$ ". Plastic case. Shpg. wt., 10 oz.

N 679. NET.....2.10

### 10-PIECE SOCKET SET

Contains eight popular-sized heavy-duty sockets; 3-position handle; and  $\frac{3}{4}$ " extension bar for hard-to-reach places. Five 6-point sockets fit commonly used hex nuts:  $\frac{3}{8}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ ",  $\frac{3}{4}$ " and  $\frac{7}{8}$ ". Three 12-point sockets:  $\frac{1}{2}$ ",  $\frac{3}{4}$ " and  $\frac{7}{8}$ ". Rugged, satellite handle locks in 3 positions—right, left and straight. Unbreakable amber plastic handle.  $\frac{3}{4}$ " extension adds extra length out-of-the-way spots.  $\frac{6}{16}$ " long, plus  $\frac{1}{2}$ " extension. Shpg. wt., 1 lb.

N 464. NET.....1.19

### FLEXIBLE-SHAFT SOCKET DRIVER

(not illus.) A versatile flexible-shaft  $\frac{1}{4}$ " ratchet driver for socket wrenches. Flexible shaft permits working around corners for tightening or removing bolts and nuts in hard-to-get-at places. Has rugged, hardened alloy steel head set on a laminated, flexible steel shaft. Handle is unbreakable plastic. 6 $\frac{3}{4}$ " long. Driver only. Shpg. wt., 6 oz.

N 224. NET.....94c

## VACO TOOL SETS



RT-14



TV-27



SP-500



K-7



P550

### HANDY COMBINATION KIT

TYPE RT-14. Kit includes: Handle; 6" extension piece; 7 nut drivers, sizes  $\frac{1}{16}$ ",  $\frac{1}{8}$ ",  $\frac{3}{16}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ ",  $\frac{3}{4}$ ",  $\frac{7}{8}$ "; 2 Phillips drivers, No. 1 and No. 2; and 3 regular drivers, sizes  $\frac{1}{8}$ ",  $\frac{3}{16}$ " and  $\frac{1}{4}$ ". Shpg. wt., 1 $\frac{1}{2}$  lbs.

45 N 829. List, \$11.98. NET.....9.99

### 27-PIECE TV AND RADIO KIT

TYPE TV-27. Includes: 1 medium and 1 heavy-duty handle; #1 and #2 Phillips bits;  $\frac{1}{8}$ ",  $\frac{3}{16}$ " and  $\frac{1}{4}$ " regular bits; 6" bit extension;  $\frac{1}{8}$ ",  $\frac{1}{4}$ ",  $\frac{3}{8}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ ",  $\frac{3}{4}$ " and  $\frac{1}{2}$ " hex nut bits; 1 medium and 1 small offset screwdriver;  $\frac{1}{4}$ " stub;  $\frac{3}{4}$ " pocket clip; #1 Phillips;  $\frac{1}{8}$ " screw-holding;  $\frac{1}{4}$ " insulated-blade;  $\frac{3}{8}$ " screw-holding;  $\frac{3}{8}$ " insulated-blade screwdrivers;  $\frac{3}{8}$ " metal-tip aligner;  $\frac{1}{8}$ "x10" adjuster;  $\frac{3}{4}$ " TV aligner. 2 $\frac{1}{2}$  lbs.

45 N 831. List, \$26.42. NET.....19.80

### PHILLIPS SCREWDRIVER SET

TYPE P550. Mechanic's boxed set. Contains five of the most popular Phillips screwdrivers. Easy-grip handles are constructed of shockproof Ambryl. Rugged, wear-resistant vanadium steel blades. Set sold as complete kit only. See assortment in table in column at right. Shpg. wt., 1 $\frac{1}{2}$  lbs.

TYPE SP-500. New, 5-piece set of high-quality nut drivers. Contains drivers for the five most popular hex nut sizes. Sizes are:  $\frac{3}{16}$ ",  $\frac{1}{8}$ ",  $\frac{3}{8}$ ",  $\frac{1}{4}$ " and  $\frac{1}{2}$ ". Have full polished chrome shafts and extra large, colored-for-size, comfort-designed handles. Specially treated sockets assure long-wearing use—fit long bolt extensions. Two-tone plastic box. Size of box, 5x7x2". Wt., 2 lbs.

43 N 982. List, \$5.30. NET.....3.96

### HOLLOW-SHAFT HEX DRIVER SET

TYPE K-7. This high-quality set includes 7 hex-nut drivers with color-keyed handles. All-hollow shafts. Sure-grip handles; extra-hard sockets. Supplied in convenient, plastic tool roll with individual holders marked for size and color. Shaft length, 3". For hex-nut sizes:  $\frac{3}{16}$ ",  $\frac{1}{8}$ ",  $\frac{3}{8}$ ",  $\frac{1}{2}$ ",  $\frac{5}{8}$ ",  $\frac{3}{4}$ " and  $\frac{1}{2}$ ". Shpg. wt., 1 $\frac{1}{2}$  lbs.

43 N 906. List, \$8.60. NET.....6.44

### PHILLIPS SCREWDRIVER SET

| Type | Overall           | Blade                             | For Screws        |
|------|-------------------|-----------------------------------|-------------------|
| P1   | 6 $\frac{1}{2}$ " | $\frac{3}{16}$ "x3"               | No. 4 and smaller |
| P2   | 10"               | $\frac{1}{8}$ "x6"                | No. 5 to No. 9    |
| P3   | 10"               | $\frac{1}{8}$ "x6"                | No. 10 to No. 16  |
| P5   | 3 $\frac{3}{4}$ " | $\frac{1}{4}$ "x1 $\frac{3}{4}$ " | No. 5 to No. 9    |
| P6   | 3 $\frac{3}{4}$ " | $\frac{1}{4}$ "x1 $\frac{1}{2}$ " | No. 4 and smaller |

43 N 880. List, \$6.08. NET.....4.54



RT-52

### Special Bit



### VACO TESTING SCREWDRIVER

TYPE AN-2. Handy pocket-clip model with neon bulb in handle. Glows bright or dim to test auto ignition or other high voltage AC/RF source. Ideal for testing fly-back transformers.  $\frac{5}{16}$ "x $\frac{1}{16}$ " dia. 2 oz.

43 N 745. NET.....81c

TYPE AN-44. Above but  $\frac{7}{8}$ "x $\frac{1}{4}$ " blade.

43 N 746. NET.....1.36

### VACO INSULATED SCREWDRIVER

TYPE VR-261. For work in crowded "live" circuitry. 6x $\frac{1}{4}$ " blade. Wt., 3 oz.

43 N 861. NET.....72c

### VACO DOUBLE-END NUT DRIVER

TYPE DE-810.  $\frac{1}{4}$ " hex nutdriver on one end;  $\frac{3}{8}$ " on other. Length, 6", 4 oz.

50 N 381. List, \$1.08. NET.....81c

### BRIDGEPORT SUPER-GRIP SCREWDRIVERS

TYPE 561 is Phillips type, No. 1 point; 562 is Phillips type, No. 2 point. 3 oz.

| Stock No. | Mfr's Type | Blade Size          | NET EACH |
|-----------|------------|---------------------|----------|
| 50 N 385  | 557        | 4x $\frac{3}{16}$ " | 44c      |
| 50 N 386  | 558        | 6x $\frac{3}{16}$ " | 48c      |
| 50 N 387  | 559        | 4x $\frac{1}{4}$ "  | 52c      |
| 50 N 388  | 560        | 6x $\frac{1}{4}$ "  | 59c      |
| 50 N 389  | 561        | 3x $\frac{3}{4}$ "  | 56c      |
| 50 N 390  | 562        | 4x $\frac{1}{4}$ "  | 63c      |

SET OF FIVE DRIVERS. Includes all types above, except 561. Shpg. wt., 1 lb.

50 N 613. NET.....2.59

### "HOLD-E-ZEE" SCREWDRIVER KITS

TYPE RT-52. Includes one each: TR-4, with  $\frac{1}{2}$ "x4" hex blade; PR-4,  $\frac{3}{8}$ "x4", for Phillips head screws; TR-6,  $\frac{3}{16}$ "x6"; TR-8,  $\frac{3}{16}$ "x8"; TS-7,  $\frac{7}{8}$ "x7". Shpg. wt., 1 $\frac{1}{2}$  lbs.

43 N 972. List, \$4.50. NET.....3.31

TYPE TK-5. Has 1 each: TS-4,  $\frac{7}{8}$ "x4"; PS-4,  $\frac{3}{8}$ "x4", for Phillips head screws; TH-6,  $\frac{3}{16}$ "x6". Also one each of TR-4 and PR-4 described above. Shpg. wt., 1 $\frac{1}{2}$  lbs.

43 N 971. List, \$5.25. NET.....3.86



### SHELTON NO. 5 TOOL SET

Twenty-one piece set includes: ratchet handle; straight hex adapter; offset hex adapter; double offset adapter; seven hex sockets; three square sockets; two tool steel screwdriver bits for slotted screws; two screwdriver bits for recessed head screws; twoawl points; and tack lifter. In attractive gift box. Shpg. wt., 1 $\frac{1}{2}$  lbs.

50 N 548. List, \$5.00. NET.....3.98

Allied Guarantees Your Complete Satisfaction

## EDSAL EQUIPMENT



Spacious  
48x24"  
Work Area

"No-Mar" Table  
Top Withstands  
Rough Usage

### ALL-STEEL FRAME WORK BENCH

NET

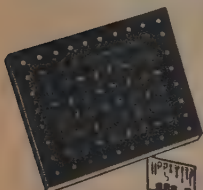
**\$159<sup>95</sup>**

- 8 Square-Foot Work Area
- Large, Reinforced Pegboard Tool Rack
- Accommodates Large Storage Drawers
- Colorful Gray Enamel Parts are Rustproof

New all-steel frame hobby and work bench for the home workshop or industrial shop. Durably constructed to provide years of reliable service. Features include: 48x15" reinforced pegboard tool rack—plenty of room for a complete tool assortment; 48x24" table top of mar resistant 1½" thick, high-impact compressed board that withstands rough usage; holds two all-steel parts storage drawers (below). Gray oven-baked enameled steel parts are rust resistant. Less drawers. 34½" high. Shpg. wt., 83 lbs.

50 NZ 523. NET.....15.95  
50 NX 524. STEEL STORAGE DRAWER, 3x12x20". 15 lbs. NET. 2.98

## KERR MODEL 102 WALL TOOL RACK KIT



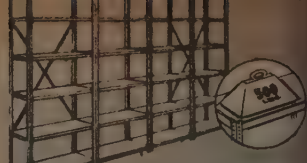
Four 18x24"  
Pegboards,  
66 Fixtures

Rugged, attractive pin-up rack keeps your tools in easy reach. Four 1½x18x24" perforated hardboard squares make 12 square ft. of storage space. 66 specially designed fixtures hold saws, hammers, pliers, wrenches, planes, files, screwdrivers and many other tools and accessories. Includes four 4-oz. nail and screw jars, 2 shelf brackets, mounting screws, spacers, and complete instructions. Shpg. wt., 15 lbs.

86 NX 178. NET.....5.39

MODEL 102W WORKSHOP UNIT. Same as above, but less perforated hardboards. Shpg. wt., 3 lbs.

50 N 127. NET.....2.59



Units Can Be Mounted Side-by-Side  
Each Shelf Holds Up to 500 Pounds

## DELUXE HEAVY-DUTY RACKS

AS LOW AS

**\$89<sup>95</sup>**

Heavy-duty shelving for use wherever compact, multiple storage is required. Use in stores, offices, shops, basements, garages, storerooms. Extremely sturdy—each shelf holds up to 500 pounds. Each unit is complete and can be moved independently. Exceptionally fast, simple assembly—only tops and bottoms need be bolted; the rest of unit clips together with unique, "Kwik-Klip" fasteners. Comes with 5 shelves; extra shelves are available (below). Heavy gauge posts are punched at intervals for convenient shelf adjustment. Stands 75" high, 35" wide. Available in two shelf depths, 12" and 18". Gray baked enamel finish.

88 NZ 087. With 12" Shelves. 47 lbs. NET.....8.95

88 NZ 088. With 18" Shelves. 60 lbs. NET.....11.45

88 N 085. 12" Extra Shelf. 6 lbs. NET.....1.39

88 N 086. 18" Extra Shelf. 8 lbs. NET.....1.89

## LOW-COST VIS-A-PART STORAGE RACKS



Parts Are  
Always In  
Full View

Ideal low-cost storage for small resistors, condensers, nuts, bolts, etc. Contents always visible, yet remain clean, dry. Jars slide out easily, already open. Masonite board has 4 mtg. holes. Perfect for repairmen, machinists, and hobbyists.

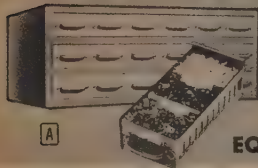
| Stock No. | Type   | Size   | Lbs. | NET  |
|-----------|--------|--------|------|------|
| 86 NX 246 | 12-Jar | 8½x18" | 4½   | 1.91 |
| 86 NX 245 | 24-Jar | 18x18" | 9    | 3.53 |

REPLACEMENT JARS. Individual replacement jars for Vis-A-Part Boards. 2 oz.

46 N 207. NET EACH.....8c

HOLDER CLIPS. Same as jar holders in Vis-A-Part boards above. 2 oz. Pkg. of 2.

46 N 204. NET PER PACKAGE.....20c



## EQUIPTO STORAGE CABINETS

**A** NO. 11—18-DRAWER CABINET. Ideal for storing small parts in easily accessible order. Each drawer is equipped with two removable cross-dividers—adjustable to any 1" interval of drawer length. Jam-proof drawers have large, convenient handles. Instant-visibility label holders on drawers and dividers. Heavy-duty all-steel frame. Olive-green finish. Drawer size, 3½x5½x11". Overall size, 13½x34x12". May be stacked. Shpg. wt., 62 lbs.

86 NZ 011. NET.....27.90

NO. 22—18-DRAWER CABINET. As above, but 18" deep. 3½x5½x17" drawers. Wt., 95 lbs.

86 NZ 099. NET.....37.90

NO. 8—8-DRAWER CABINET. As above, but eight 3½x5½x11" drawers. Wt., 95 lbs.

86 NU 012. NET.....15.95

8505 DRAWER. As in cabinets No. 11 and 8. Less dividers. Shpg. wt., 2½ lbs.

86 N 869. NET.....90c

8711 LENGTHWISE DIVIDERS. For above except No. 22. Shpg. wt., 9 oz. 5 per pkg.

86 N 871. PER PACKAGE.....50c

8720 CROSS DIVIDERS. For above. Shpg. wt., 6 oz. 5 per package.

86 N 872. PER PACKAGE.....50c

**B** No. 12—18-DRAWER COMBINATION CABINET. Deluxe 2-in-1 cabinet combines storage capacity of standard units with tiny parts storage features of "Little Gem" drawers. 14 standard drawers have 3 compartments each—4 "Little Gem" drawers have 12 compartments each. Label holders on all drawers. Steel construction with olive enamel finish. Standard drawers, 3½x5½x11". "Little Gem" drawers, 1½x1½x11". Cabinet, 13½x34x11½". 68 lbs.

86 NZ 096. NET.....39.30

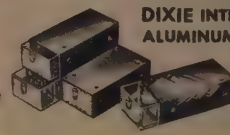
**C** "LITTLE GEM" CABINETS. Perfect for storing tiny parts. Large label holders for easy identification. Cabinets lock together when stacked. Drawer stops prevent spilling of parts. 1½x1½x11" drawers have adjustable dividers for 12 compartments each. Additional dividers (below) may be added. Olive green enamel finish.

| Stock No. | Type No. | No. of Drawers | Size (WxD) | Wt., Lbs. | NET EACH |
|-----------|----------|----------------|------------|-----------|----------|
| 86 NX 065 | 1        | 2              | 3½x11½"    | 7         | 6.95     |
| 86 NX 066 | 2        | 4              | 6½x11½"    | 15        | 13.90    |
| 86 NU 067 | 3        | 6              | 9½x11½"    | 23        | 20.85    |

TYPE 8730 DIVIDERS. For above. Provide up to 28 compartments per drawer. Size, 1½x2x4x1½". 4 oz. 5 per package.

86 N 068. PER PACKAGE.....50c

## DIXIE INTERLOCKING ALUMINUM DRAWERS



Stack  
Vertically  
Horizontally

Economical aluminum storage trays provide excellent storage for a wide variety of radio and TV small parts and hardware. Lock together on tops, bottoms, and sides. Drawer dividers (below) may be added to make individual storage compartments. Size, 27½x25½". Shpg. wt., 10 oz.

86 N 023. 1-9, EACH.....46c

10 or More, EACH.....38c

DRAWER DIVIDERS. For Dixie drawers, above. 4 oz. 3 per package.

86 N 179. PER PACKAGE.....10c

## STORAGE CONTAINERS



**D** GLASS JAR. Ideal for small parts. Metal screw cap keeps out dust, moisture. Ideal for use on the

service bench, in the home workshop, etc. 2½" high; 2" in dia. Wt., 7 oz.

44 N 500. NET EACH.....6c

12 or More, EACH.....5c

**E** PLASTIC CONTAINER. Durable, clear-view plastic container for small parts. Smooth operating sliding covers keep out dust. Size, 2½x1½x2½". Shpg. wt., 2 oz.

44 N 501. NET EACH.....21c

12 or More, EACH.....18c



# Parts Cabinets and Tool Chests



**HB-SERIES UTILITY CABINETS**  
Compact, "Handy Bin" plastic cabinets for storage of a wide variety of small items. See-through drawers,  $1\frac{1}{2} \times 2\frac{1}{2} \times 5\frac{1}{4}$ , are virtually spill-proof. Each drawer has one divider and index labels. Durable made of styrene for neat, systematic storage. Styled in eye colored frames. All cabinets are wide and  $6\frac{1}{4}$ " deep.

| Stock No. | Type | Drawers | Ht.                | Lbs. | NET  |
|-----------|------|---------|--------------------|------|------|
| 1 262     | 9HB  | 9       | 5"                 | 2    | 1.99 |
| 1 225     | 15HB | 15      | 7 $\frac{1}{2}$ "  | 4    | 2.99 |
| 1 234     | 21HB | 21      | 10 $\frac{1}{2}$ " | 6    | 3.99 |

**J-SERIES SMALL-PARTS CABINETS**  
Space-conserving steel cabinets with clear-plastic drawers,  $1\frac{1}{2} \times 2\frac{1}{2} \times 5\frac{1}{4}$ . Drawers are separated into 3 sections by removable dividers. Parts clearly visible. Catch anchors open drawer—prevents spilling. Press-on and index card labels. Cabinets, 6" deep, have gray hammertone finish.

| Stock No. | Type  | Drawers | H&W                                  | Lbs. | NET   |
|-----------|-------|---------|--------------------------------------|------|-------|
| 86 NX 144 | J-24  | 24      | 12x12 $\frac{1}{2}$ "                | 10   | 9.48  |
| 86 NX 048 | J-32  | 32      | 15 $\frac{1}{2}$ x12 $\frac{1}{2}$ " | 13   | 11.98 |
| 86 NX 039 | J-64  | 64      | 15 $\frac{1}{2}$ x25 $\frac{1}{2}$ " | 25   | 23.98 |
| 86 NX 080 | J-128 | 128     | 30 $\frac{1}{2}$ x25 $\frac{1}{2}$ " | 51   | 52.98 |

## UNION

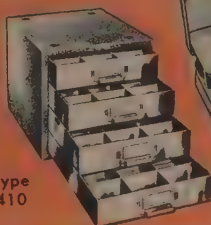
### "STACKMASTER" STEEL CABINETS

Rugged, heavy-gauge welded steel frame encloses transparent plastic drawers,  $5\frac{1}{2} \times 2\frac{3}{4} \times 1\frac{1}{4}$ ". Exclusive Lok-Tabs enable stacking in any combination—cabinets can be easily detached from one another as additions are made. Drawers have index card-holder and removable partitions. Safety catch prevents spilling. In silver Dentone baked-on enamel. U-18 has 6 middle drawers  $5\frac{1}{2}$ " wide and 12 side drawers  $2\frac{3}{4}$ " wide. All cabinets are 6" wide and  $12\frac{1}{2}$ " deep.

**M4B-SERIES METAL SMALL-PARTS CABINETS**  
All-parts storage cabinets featuring a wide plastic drawers,  $2\frac{1}{2} \times 1\frac{1}{4}$ ". With index dividers for partitioning. Index labels and full-length runners. All cabinets are wide and 11" deep. Gray finish.

| Stock No. | Type | Drawers | Ht.                | Lbs. | NET   |
|-----------|------|---------|--------------------|------|-------|
| 86 NX 597 | 12   | 12      | 8 $\frac{1}{2}$ "  | 15   | 15.98 |
| 86 NX 598 | 16   | 16      | 11 $\frac{1}{2}$ " | 18   | 20.98 |
| 86 NX 599 | 24   | 24      | 16 $\frac{1}{2}$ " | 25   | 31.98 |
| 86 NX 623 | 40   | 40      | 27 $\frac{1}{2}$ " | 47   | 52.98 |

| Stock No. | Type | Drawers | Ht.               | Lbs. | NET  |
|-----------|------|---------|-------------------|------|------|
| 86 N 784  | U-12 | 12      | 5 $\frac{1}{2}$ " | 6    | 3.35 |
| 86 NX 158 | U-18 | 18      | 11"               | 9    | 5.30 |
| 86 NX 783 | U-24 | 24      | 11"               | 9    | 5.50 |



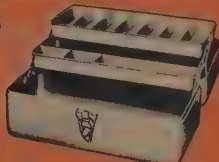
Type 410



Type 4313



Type 5413



Type 5414

## UNION STEEL CHESTS

**TYPE 6119 "SUPER STEEL" CHEST**  
Body steel chest with 3-compartment reliable tray. Has 2 heavy-duty drawbolts, center padlock eye. Continuous hinge used to cover and case. Carefully balanced with steel handle for easy carrying. Holds soldering iron, pliers, screwdrivers, etc. Blue enamel interior; silver-hammertone exterior.  $7 \times 19 \times 7\frac{1}{2}$ ". 8 lbs. **NET. . . . . 5.15**  
**TYPE 6118.** Type 6116. Above, with 2 compartments.  $7 \times 16 \times 7\frac{1}{2}$ ". 7 lbs. **NET. . . . . 4.95**

**NEW 4313 ALL-PURPOSE CHEST**  
A low-cost steel chest with a single-cantilever 3-compartment tray. Has full-drawn leakproof seamless body and snap catch with provision for padlock. Hardware fittings are machine riveted. Edges are fully returned for safety and strength. Has 12" rule embossed in cover. Blue enamel finish.  $4\frac{1}{2} \times 13\frac{1}{2} \times 6\frac{1}{2}$ ". Wt., 2 $\frac{1}{2}$  lbs.  
**91 NX 234. NET. . . . . 1.35**  
**91 NX 233.** Type 4013. As above, but without tray. Shpg. wt., 2 lbs. **NET. . . . . 1.10**

**5414 "WATERTITE" UTILITY BOX**  
A ruggedly constructed tool chest featuring 2 cantilever-mounted trays and Union's famous watertight design. Extra-large tray capacity makes unit ideal for orderly storage of tools and small parts. Push-button self-latching drawbolt ends accidental spilling. Upper tray has 7 compartments; lower tray contains one full length, one  $\frac{1}{2}$  length and 2 smaller compartments. Full grip steel handle. Green enamel finish. Size,  $7 \times 14\frac{1}{2} \times 7\frac{1}{4}$ ". Shpg. wt., 5 lbs.  
**86 NX 045NET. . . . . 3.15**

**TYPE 410 4-DRAWER STEEL CHEST**  
Large all-steel chest for often-used radio hardware and small parts. Ideal for mechanics, hobbyists, experimenters, etc. Easy-slide drawers,  $2 \times 9 \times 1\frac{1}{2}$ ", have 1" holders and removable dividers to separate up to 12 compartments per drawer. Blue finish.  $10 \times 10 \times 1\frac{1}{2}$ ".  $10\frac{1}{2}$  lbs.  
**NET. . . . . 4.98**  
**TYPE 019. NET. . . . . 4.98**

**NEW 5413 2-TRAY UTILITY CHEST**  
A top-quality chest perfect for those requiring maximum capacity at lowest possible cost. Has 5 compartments in upper tray; plain lower tray, spill-proof drawbolt, seamless weather-tight construction, returned edges, embossed 12" rule, etc. Green baked enamel.  $6\frac{1}{2} \times 13\frac{1}{2} \times 6\frac{1}{2}$ ". 2 lbs.  
**91 NX 232. NET. . . . . 2.50**

**TYPE 5419 UTILITY BOX**  
(Not illus.) Similar to Type 5414 above, but larger in size. Same double-cantilever watertight construction with the advantage of a full 19" length. Has 9 sections in upper tray and 6 sections in lower tray. Virtually spill-proof. Both sides latch. Size,  $7 \times 19 \times 7\frac{1}{2}$ ". Shpg. wt., 7 lbs.  
**86 NX 154. NET. . . . . 4.25**

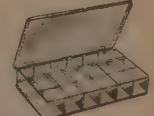
**MILTON UTILITY BOX**  
Motion-tilt lever  
Pure-Lock  
Snap Closure  
Model 1501  
Hardy drawn-metal tool and general utility. Easy-carry balanced handle. Tray slides aside when lid is raised. Green sh  $4\frac{1}{2} \times 14\frac{1}{2} \times 6\frac{1}{4}$ ". Wt., 3 lbs.  
**NET. . . . . 1.50**



## VLCEK CLEAR-PLASTIC STORAGE BOXES

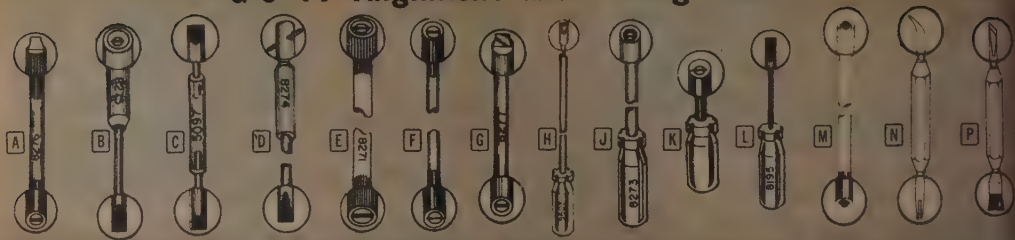
Rugged all-plastic hinged-top storage boxes with from 1 to 24 compartments. Ideal for storing small parts, resistors, capacitors, fuses, hardware, etc. Boxes are light, rigid, strong, scratch-resistant and easy to clean. Type P250 has removable cover. \*Indicates total number of compartments.

| No.      | Type | *Comp. | Size of Compartments                 | Overall Size                                        | Lbs.          | NET  |
|----------|------|--------|--------------------------------------|-----------------------------------------------------|---------------|------|
| 44 N 362 | P250 | 1      | 5 $\frac{1}{2}$ x3 $\frac{1}{2}$ "   | 6 $\frac{1}{2}$ x4x1 $\frac{1}{4}$ "                | $\frac{1}{2}$ | .38  |
| 44 N 363 | P221 | 4      | 1 $\frac{1}{2}$ x2 $\frac{1}{2}$ "   | 4 $\frac{1}{2}$ x3x1 $\frac{1}{4}$ "                | $\frac{1}{2}$ | .22  |
| 44 N 356 | P212 | 5      | 4-1 $\frac{1}{2}$ x2 $\frac{1}{2}$ " | 7x3 $\frac{1}{2}$ x1 $\frac{1}{4}$ "                | $\frac{1}{2}$ | .37  |
| 44 N 357 | P203 | 6      | 1 $\frac{1}{2}$ x3 $\frac{1}{2}$ "   | 8 $\frac{1}{2}$ x5 $\frac{1}{2}$ x1 $\frac{1}{4}$ " | $\frac{3}{4}$ | .51  |
| 44 N 355 | P210 | 9      | 8-1 $\frac{1}{2}$ x1 $\frac{1}{2}$ " | 7x3 $\frac{1}{2}$ x1 $\frac{1}{4}$ "                | $\frac{1}{2}$ | .37  |
| 44 N 358 | P201 | 12     | 6-1 $\frac{1}{2}$ x1 $\frac{1}{2}$ " | 8 $\frac{1}{2}$ x4 $\frac{1}{2}$ x1 $\frac{1}{4}$ " | $\frac{1}{2}$ | .51  |
| 44 N 354 | P612 | 12     | 6-1 $\frac{1}{2}$ x1 $\frac{1}{2}$ " | 11x5 $\frac{1}{2}$ x1 $\frac{1}{4}$ "               | $\frac{1}{2}$ | 1.22 |
| 44 N 66  | P200 | 18     | 1 $\frac{1}{2}$ x1 $\frac{1}{2}$ "   | 8 $\frac{1}{2}$ x4 $\frac{1}{2}$ x1 $\frac{1}{4}$ " | $\frac{1}{2}$ | .51  |
| 44 N 367 | P618 | 18     | 1 $\frac{1}{2}$ x1 $\frac{1}{4}$ "   | 11x6 $\frac{1}{2}$ x1 $\frac{1}{4}$ "               | $\frac{1}{2}$ | 1.28 |
| 50 N 614 | P818 | 18     | 12-2x2"                              | 13 $\frac{1}{2}$ x9x2 $\frac{1}{4}$ "               | 2             | 1.95 |
| 50 N 615 | P824 | 24     | 2x2"                                 | 13 $\frac{1}{2}$ x9x2 $\frac{1}{4}$ "               | 2             | 2.03 |



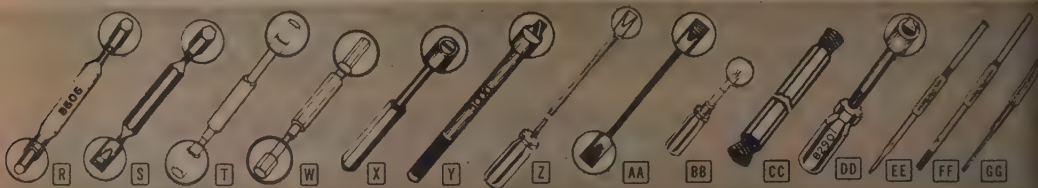
Make Allied Your Headquarters for Parts Cabinets and Tool Chests

# G-C TV Alignment and Tuning Tools



| Stock No. | Type | Fig. | Description                      | Oz. | NET  |
|-----------|------|------|----------------------------------|-----|------|
| 42 N 378  | 8276 | A    | Short duplex aligner             | 3   | 50c  |
| 42 N 381  | 8275 | B    | Zenith universal aligner         | 3   | 50c  |
| 42 N 383  | 5097 | C    | K-tran and IF aligner            | 3   | 76c  |
| 42 N 391  | 8274 | D    | 9" nested core aligner           | 3   | 81c  |
| 42 N 382  | 8271 | E    | Stackpole stud-type core aligner | 3   | 56c  |
| 42 N 393  | 8722 | F    | 7" duplex #4 and #6 stud aligner | 3   | 65c  |
| 42 N 395  | 8277 | G    | 2 1/2" duplex aligner            | 3   | 50c  |
| 42 N 386  | 8607 | H    | 12 1/2" nylon tip aligner        | 4   | 1.47 |

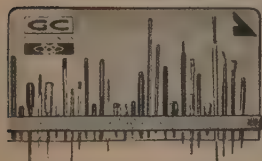
| Stock No. | Type   | Fig. | Description                     | Oz. | NET |
|-----------|--------|------|---------------------------------|-----|-----|
| 42 N 387  | 8608-E | I    | Replacement nylon tip for above | 3   | .24 |
| 42 N 397  | 8273   | J    | All-purpose TV aligner          | 3   | .67 |
| 42 N 348  | 9298   | K    | 2" blade alignment tool         | 3   | .47 |
| 42 N 394  | 8195   | L    | Channel tuning tool             | 3   | .71 |
| 50 N 585  | 8278   | M    | Extra-thin TV tuning wand       | 3   | .51 |
| 50 N 586  | 9093   | N    | 8" soldering aid probe          | 3   | .90 |
| 50 N 587  | 9094   | P    | P.C. board brush and scraper    | 3   | .96 |



| Stock No. | Type   | Fig. | Description                     | Oz. | NET  |
|-----------|--------|------|---------------------------------|-----|------|
| 42 N 377  | 8606   | R    | Zenith-Admiral nylon hex wrench | 3   | .47  |
| 42 N 380  | 8282   | S    | Zenith wrench and aligner       | 3   | .36  |
| 42 N 379  | 9091   | T    | 12 1/2" hex nylon wrench        | 3   | .47  |
| 42 N 346  | 9296   | W    | 11" nylon hex (.075") wrench    | 4   | .67  |
| 42 N 347  | 9050-L | X    | Zenith nylon hex wrench         | 3   | .32  |
| 42 N 396  | 5000   | Y    | Alignment screwdriver           | 3   | .41  |
| 42 N 384  | 8988   | Z    | 12" blade plastic screwdriver   | 3   | .91  |
| 42 N 385  | 8989   | Z    | 16" blade plastic screwdriver   | 3   | 1.20 |
| 42 N 388  | 8728-A | AA   | 7" long bone-fiber screwdriver  | 3   | .42  |

| Stock No. | Type | Fig. | Description                        | Oz. | NET  |
|-----------|------|------|------------------------------------|-----|------|
| 42 N 389  | 8728 | AA   | Same as 8728-A, left, but 12" long | 3   | .52  |
| 42 N 390  | 8729 | AA   | Same as 8728-A, left, but 16" long | 3   | .68  |
| 42 N 420  | 9347 | BB   | 7" tight spot steel screwdriver    | 3   | 2.20 |
| 42 N 409  | 9147 | CC   | Universal screwdriver aligner      | 3   | 1.62 |
| 50 N 588  | 8290 | DD   | Universal screwdriver aligner      | 3   | .62  |
| 50 N 571  | 8868 | EE   | Tel-A-Turn screwdriver             | 3   | .98  |
| 50 N 572  | 8867 | FF   | Tel-A-Turn IF aligner              | 3   | .98  |
| 50 N 573  | 8869 | GG   | Tel-A-Turn Hex aligner             | 3   | .98  |

## G-C TOP-QUALITY ALIGNMENT KITS For Maximum Servicing Convenience



**TYPE 9200 PANEL KIT.** A convenient, wall-mounting type kit of the 27 most-needed alignment tools. Each tool has separate slot. Cover most alignment jobs on all popular radio and TV sets. The finest materials are used—low-loss plastics, tips of hardened spring steel, extra-hard bone fiber.

Includes: Alignment screwdrivers in various lengths, special short tools, alignment wrenches, channel tuners, core aligners, oscillator adjustment tools, trimmer and IF aligners, solder probe tool, stainless steel brush and scraper, nylon replacement tip, special hex tools, etc. In 3-color steel panel, drilled for two-hole mtg. 3 lbs.

42 NX 341. NET. .... 17.15



**TYPE 8283 MASTER DELUXE TV TOOL KIT.** A complete service alignment tool kit for television repair work. Contains 25 high-quality alignment tools not over 9" long. Includes: TV K-Tran tool, TV Core Aligner, TV Long Reach Aligner, TV Flexible Wand, TV Short Tool. Roll case. 1 lb.

42 N 005. NET. .... 13.88

**TYPE 8280 DELUXE TELEVISION ALIGNMENT TOOL KIT.** Handy roll-type durable leatherette case with 16 specially engineered TV tools. The steel tips are hardened spring steel. Includes "Shorty," Duplex Aligner, Tuning Wand, Core Aligner, Oscillator Tool, Long Reach Aligner, etc. 8 oz.

42 N 006. NET. .... 8.45

**G-C CHASSIS CRADLE.** Easy-to-use, adjustable cradle holds chassis securely. Complete 360-degree rotation permits tilting work to the most convenient angle. 24" long, 14" high, 12 1/2" wide. Wt., 7 lbs.

86 NX 034. NET. .... 7.35

**JFD "REPAIRACK."** Sturdy, cast-iron rack for supporting chassis. Chassis clamps securely hold any chassis up to 200 lbs. and 32" in length. Full 360 degree rotation. 14 1/2 x 32 x 15". Shpg. wt., 18 lbs.

86 NX 038. NET. .... 26.46



G-C Chassis Cradle



JFD "Repairack"

## EQUIPO STEEL STANDS AND TRUCKS



2-Tray Truck



Chassis Stand

## STURDY STEEL TRUCKS

Rugged steel trucks with round beaded edges for extra strength and rigidity. Smooth, solid-rubber-tired 5" wheels; rear wheels swivel. 4" deep trays carry up to 600 lbs. Top tray becomes table top when inverted. Olive-green enamel finish.

| Stock No. | Mfr's Type | Size HWD  | Wt. Lbs. | NET EACH |
|-----------|------------|-----------|----------|----------|
| 86 NZ 090 | 150        | 36x24x36" | 70       | 39.90    |
| 86 NZ 092 | 145        | 36x16x30" | 60       | 29.90    |

86 N 093. TYPE 146 SHELF. Attaches to above carts. 8 1/2 x 11". 5 lbs. NET. .... 2.50

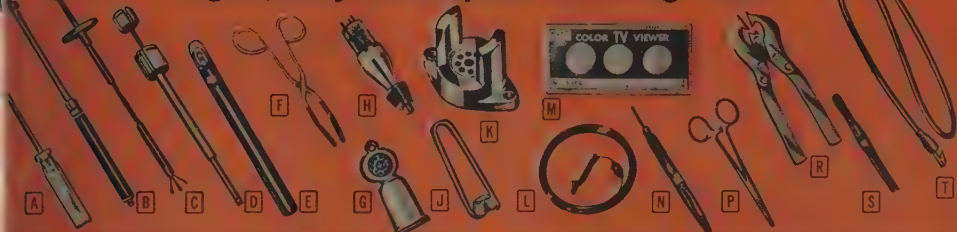
## CHASSIS AND TEST UNIT STANDS

Handy stands for moving or working on radio-TV chassis, electronic equipment, heavy test instruments. Rugged steel construction, with quiet, smooth-rolling 2 1/2" solid-rubber-tired wheels. Lower shelf space for carrying or storing tools, parts, etc. Both stands are 34" high, 18" wide, 24" long.

| Stock No. | Mfr's Type | Description | Wt. Lbs. | NET EACH |
|-----------|------------|-------------|----------|----------|
| 86 NZ 087 | 710        | Metal top   | 55       | 16.30    |
| 86 NZ 088 | 711        | Wood top    | 57       | 17.80    |



# High-Quality All-Purpose Servicing Tools



**A** -C 5090 INSPECTION MIRROR. Excellent tool for reading component values and detecting connections in out-of-sight places. Mirror dia., 1". Wt., 5 oz. # 121. NET. .41c

**B** -C 8725 ILLUMINATED INSPECTION MIRROR. A real convenience for checking in crowded, hard-to-see circuitry. An sized aluminum flashlight with 6" lucite and 1" hinge-mounted mirror. Plastic ing. With bulb. Requires 2 penlight (below). 12 1/4". 6 oz. # 130. NET. .197

**C** -C 5089 PICK-UP TOOL. Time-saver for servicemen. Press button to open, release to close over object. Flexible shaft. Shpg. wt., 4 oz. # 741. NET. .96c

**D** -C 9299 COLOR TV TOOL. For concentric-shaft, color TV convergence tools. Outer sleeve fits into O.D. adjust- ing; inner drive to inner slot. 3 oz. # 662. NET. .130

**E** -C 7053 HANDY TROUBLE-LIGHT. Illuminates dark corners in chassis—excellent visual inspection of components in wires, etc. Casts light without glare; get it in the way. With bulb and 5 1/2-ft. For 115 v., AC or DC. 1/2 lb. # 120. NET. .132

**F** -C TYPE 5092 TUBE PULLER. Scissors-type puller with rubber tips. 12 oz. # 092. NET. .96c

**G** -C TYPE 9130 TUBE GADGET. 3 tools in one. Quickly and easily straightens 7 or 9 pin miniature tube pins; pulls tubes. 3 oz. # 016. NET. .90c

**H** -C TYPE 5093 TUBE PULLER. For 7-pin miniature tubes. Durable aluminum body, with rubber cup. 2 oz. # 094. NET. .127

**I** -C TYPE 8106 TUBE PULLER. As above, for 9-pin miniature tubes. 2 oz. # 155. NET. .127

**J** -C KNOB-PULLER. A very helpful tool-kit item. Knob-puller easily removes all types of hard-to-grip, push-on knobs. Simply place blades in back of knob, close handles, and pull forward. 4 oz. # 077. NET. .32c

**K** -C TYPE 5191 PIN STRAIGHTENER. Precision straightener for 7-pin miniature tubes. Features a ruggedly constructed steel die for lasting service. 6 oz. # 227. NET. .73c

**L** -C TYPE 8105. As above, but for use with 9-pin miniature tubes. Wt., 6 oz. # 228. NET. .73c

**M** -C TYPE 8655 PIN STRAIGHTENER. (Not illus.) Dual-service pin straightener. For both 7-pin and 9-pin miniature tubes. Valuable aid for servicemen. 6 oz. # 230. NET. .147

**N** -C DEGAUSSING COIL. Demagnetizes color CRT's. With 9-cft. cord, on-off switch. For 110-120 v. 60 cycle AC. 5 lbs. # 664. NET. .11.95

**M** -C TYPE 9309 COLOR TV VIEWER. Allows adjusting color phase and matrix without oscilloscope. Consists of three sealed transparent optical filters. 2 oz. # 663. NET. .147

**N** -C TYPE 8885 PRES-TO-OILER. Press on plunger to release one drop of oil. Transparent fountain-pen reservoir holds oil supply. Also ideal for dispensing radio and TV chemicals. Contains oil, 3 oz. # 065. NET. .81c

**P** -C XCELITE TYPE 42H "SEIZER." Straight-nose "third hand." Wt., 3 oz. # 666. NET. .427

**Q** -C TYPE 43 H. As above, but with curved nose. NET. .442

**R** -C TYPE 8872 C-RING TOOL. Removes and inserts "C" washers and retaining rings on control shafts. 2 oz. # 661. NET. .184

**S** -C TYPE 7946 TWEEZERS. Precision made. Self-closing crossover action. Serrated, blunt points. 6 1/2" long 4 oz. # 737. NET. .76c

**T** -C TYPE 7947. As above, has slide lock. 6 1/2" long. 4 oz. NET. .88c

**U** -C TYPE 7948. As above, has narrow pointed ends. 4 1/2" long. 4 oz. NET. .50c

**V** -C TYPE 7950 TWEezer KIT. 1 each of above in case. 4 oz. NET. .223

**W** -C REAR CONTROL TV TUNING AID. For remote adjustment of TV rear panel controls. Attach to control, turn knob to adjust. Flexible, 5" long. Shpg. wt., 8 oz. # 248. NET. .2.89



**S** -C MAGNETIC SOCKET WRENCH SET. Contains five tiny interchangeable hex set wrenches with magnetized swivel top files. Insert and remove small nuts or washers in hard-to-get-at places. Magnet removes small metal parts. Wrenches are easily and easily interchangeable, fit snugly in screw type chuck. Sizes: 3/64", 1/32", 1/16", and 3/32". Made of heat treated steel. Handle is nickel-plated brass. In separate plastic container. 5 oz. # 862. NET PER SET. .2.61

**OE-5** -C OR MORE, PER SET. .2.39

**SC-5** -C OPEN END WRENCH SET. Set of 5 tiny open-end wrenches. Made of tough, heat-treated steel and are interchangeable in handle. Facilitate removing or attaching small nuts. Especially desirable for sub-miniature work in electronics. Each size supplied: 3/64", 1/32", 1/16", 3/32", 1/8", and 5/32". Supplied in convenient base with separate dust cover. 3 oz. # 804. NET PER SET. .1.64

**OR MORE, PER SET. .1.47**

## MOODY WRENCH AND SCREWDRIVER SETS



**SC-5 SCREWDRIVER SETS.** Contains 4 interchangeable hardened steel blades in sizes .001", .002", .070" and .080" plus 1" awl. Blades insert quickly and securely into screw type chuck. Excellent for camera and watch repairing, radio and appliance work, etc. Set includes 4 blades, awl, handle and handy plastic base. Wt., 8 oz. # 859. NET PER SET. .99c

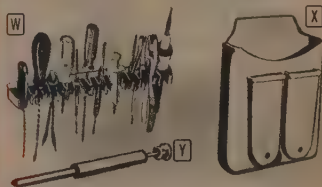
**12 Sets or More, PER SET. .89c**

**TYPE PA-5** Contains No. 0 and No. 1 Phillips-type driver and Nos. 4, 6 and 8 Allen-type wrench, handle, stand and cover. 7 oz. # 857. NET PER SET. .1.64

**12 Sets or More, PER SET. .1.47**

**JS-6 JEWELER'S SCREWDRIVERS.** Set of 6 precision drivers. Quality steel blades, knurled handles. Sizes: .025", .040", .055", .070", .080", and 1". Grooves tell blade size by touch. In sturdy case. Case size: 3/4x1 1/2x3 3/4". 1/2 lb. # 384. NET PER SET. .2.89

**12 Sets or More, PER SET. .2.69**



## G-C TYPE 9525 TOOL CADDY

**W** -C Holds twelve tools of all shapes and sizes. Holds odd-sized tools and utensils—from hammers to tweezers. Simple to mount and use. Tools are held by spring-loaded brackets. Just snap in and snap out—tools are always held firmly in place. 10 7/8" long. Shpg. wt., 3/4 lb. # 665. NET. .1.46

## G-C 8943 "TUX" TOOL HOLSTER

**X** -C Perfect for servicemen, electricians, etc. Attaches to belt. Three compartments securely hold most-needed tools. Tough, plastic holds its shape. 6 oz. # 345. NET. .2.43

## G-C CONTROL GUN

**Y** -C TYPE 9280. Handy device for cleaning and lubricating noisy volume controls. 7 1/4x3 1/4". Less fluid. Shpg. wt., 8 oz. # 045. NET. .3.67

**Z** -C TYPE 9282 ADAPTER. For extra long sockets. 2 oz. NET. .49c

# Quality Terminals—Installation Tools



## VACO SOLDERLESS TERMINALS & TOOLS

Terminals form a perfect electrical connection. Of copper alloy for maximum conductivity and minimum voltage drop. \*Included in 2195 kit, below. †1/4" male tab. ‡Female tab socket. §1/4" angle male tab. ¶Angle female tab socket. \*\*1/4" male tab

on one end; takes Fig. C 3/4" snap terminal on other end. ††Female tab socket on one end; takes Fig. C 3/4" snap terminal on other. Av. shpg. wt., 8 oz. per package. Packed 100 terminals to a package. Smaller lots listed on following page.

### NON-INSULATED

| Wire Size | Stud Size | Lgth.  | Fig. | Stock No. | Mfr's No. | NET PER PKG. OF 100 |
|-----------|-----------|--------|------|-----------|-----------|---------------------|
| 22-16     | 4-6       | 1 1/2" | A    | 42 N 800  | 2300*     | 2.18                |
| 22-16     | 4-6       | 1 1/2" | A    | 42 N 801  | 2301*     | 2.18                |
| 22-16     | 8-10      | 3/4"   | A    | 42 N 802  | 2302*     | 2.18                |
| 16-14     | 4-6       | 1 1/2" | A    | 42 N 803  | 2400*     | 2.18                |
| 16-14     | 4-6       | 1 1/2" | A    | 42 N 804  | 2401*     | 2.18                |
| 16-14     | 8-10      | 3/4"   | A    | 42 N 805  | 2402*     | 2.18                |
| 16-14     | 12-14     | 2 1/2" | A    | 42 N 806  | 2403      | 2.71                |
| 12-10     | 8-10      | 3/4"   | A    | 42 N 807  | 2502      | 2.71                |
| 12-10     | 12-14     | 2 1/2" | A    | 42 N 808  | 2503      | 3.61                |
| 22-16     | 4-6       | 1 1/2" | B    | 42 N 809  | 2600*     | 1.94                |
| 16-14     | 4-6       | 1 1/2" | B    | 42 N 810  | 2601*     | 2.18                |
| 16-14     | 8-10      | 3/4"   | B    | 42 N 811  | 2602*     | 2.18                |
| 22-16     | 4-6       | 1 1/2" | B    | 42 N 812  | 2700      | 1.94                |
| 16-14     | 4-6       | 1 1/2" | C    | 42 N 813  | 3202      | 1.69                |
| 22-16     | 8-10      | 3/4"   | D    | 42 N 814  | 3203      | 2.18                |
| 22-16     | 8-10      | 3/4"   | E    | 42 N 815  | 3302      | 1.69                |
| 16-14     | 4-6       | 1 1/2" | E    | 42 N 816  | 3101      | 1.69                |
| 16-14     | 8-10      | 3/4"   | E    | 42 N 817  | 3102      | 1.69                |
| 12-10     | 8-10      | 3/4"   | E    | 42 N 818  | 3103      | 2.18                |
| 22-16     | 4-8       | 1 1/2" | F    | 42 N 819  | 3300*     | 1.94                |
| 18-14     | 4-6       | 1 1/2" | G    | 42 N 820  | 3401*     | 2.18                |
| 18-14     | 4-6       | 1 1/2" | H    | 42 N 821  | 3402      | 2.18                |
| 18-14     | 4-6       | 1 1/2" | H    | 42 N 822  | 3501      | 2.18                |
| 18-14     | 4-6       | 1 1/2" | H    | 42 N 823  | 3502*     | 2.18                |
| 18-14     | 4-6       | 1 1/2" | J    | 42 N 824  | 3601**    | 3.61                |
| adapter   |           |        | K    | 42 N 825  | 3602**    | 3.61                |
| adapter   |           |        | L    | 42 N 826  | 3701**    | 3.30                |
| adapter   |           |        | M    | 42 N 827  | 3702**    | 3.30                |

### INSULATED

| Stock No. | Mfr's No. | Type  | NET PER PKG OF 100 |
|-----------|-----------|-------|--------------------|
| 42 N 828  | 6300      | 1-9   | 3.97               |
| 42 N 829  | 6301      | 10-49 | 3.65               |
| 42 N 830  | 6302      | 50-99 | 1.97               |
| 42 N 831  | 6400      | 1-9   | 3.97               |
| 42 N 832  | 6401      | 10-49 | 3.65               |
| 42 N 833  | 6402      | 50-99 | 1.97               |
| 42 N 834  | 6403      | 1-9   | 4.67               |
| 42 N 835  | 6502      | 10-49 | 4.29               |
| 42 N 836  | 6503      | 50-99 | 2.32               |
| 42 N 837  | 6504      | 1-9   | 5.73               |
| 42 N 838  | 6601      | 10-49 | 5.27               |
| 42 N 839  | 6602      | 50-99 | 2.85               |
| 42 N 840  | 6700      | 1-9   | 3.97               |
| 42 N 841  | 6101      | 10-49 | 3.65               |
| 42 N 842  | 6102      | 50-99 | 1.97               |
| 42 N 843  | 6103      | 1-9   | 3.65               |
| 42 N 846  | 6701      | 10-49 | 4.41               |
| 42 N 847  | 6801      | 50-99 | 3.97               |

## THOMAS AND BETTS TERMINALS

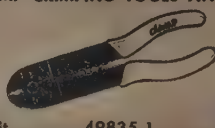
Barrel for staking conductor has ring spade tongue. Allied can supply any of the terminals (including types not listed below) in 5000 lots. Write for prices. \*Insulation grip. †Self-insulated, with insulation grip. ‡Insulated connectors. †Disconnects. Av. wt., 7 oz. per pkg. Packed 100 to a package.

| Stock No. | Fig. | Mfr's No. | Wire Size | Stud Size | NET PER PKG OF 100 |
|-----------|------|-----------|-----------|-----------|--------------------|
| 43 N 756  | A    | A18-6     | 22-18     | 6         |                    |
| 43 N 757  | A    | A18-10    | 22-18     | 10        |                    |
| 43 N 758  | A    | B14-6     | 20-14     | 6         | 3.75               |
| 43 N 759  | A    | B14-8     | 20-14     | 8         |                    |
| 43 N 760  | A    | B14-10    | 20-14     | 10        |                    |
| 43 N 761  | A    | B14-14    | 20-14     | 14        |                    |
| 43 N 762  | A    | C10-6     | 16-10     | 6         |                    |
| 43 N 763  | A    | C10-10    | 16-10     | 10        | 5.20               |
| 43 N 764  | A    | C10-14    | 16-10     | 14        |                    |
| 43 N 765  | N    | B14-6G*   | 16-14     | 6         | 4.30               |
| 43 N 766  | N    | B14-10G*  | 16-14     | 10        | 4.30               |
| 43 N 767  | B    | B14-6F†   | 22-18     | 6         | 3.75               |
| 43 N 768  | B    | B14-10F†  | 20-14     | 10        | 3.75               |
| 43 N 769  | B    | B14-14F†  | 16-14     | 14        | 4.30               |
| 43 N 770  | P    | B14-10F6* | 16-14     | 10        | 3.44               |
| 43 N 771  | R    | RA18-6†   | 22-18     | 6         |                    |
| 43 N 772  | R    | RA18-10†  | 22-18     | 10        |                    |
| 43 N 773  | R    | RB14-6†   | 16-14     | 6         | 7.20               |
| 43 N 774  | R    | RB14-10†  | 16-14     | 10        |                    |
| 43 N 775  | S    | RA18-6F†  | 22-18     | 6         |                    |
| 43 N 776  | S    | RA18-10F† | 22-18     | 10        |                    |
| 43 N 777  | S    | RB14-6F†  | 16-14     | 6         | 7.20               |
| 43 N 778  | S    | RB14-10F† | 16-14     | 10        |                    |
| 43 N 779  | S    | RB14-10F† | 16-14     | 10        |                    |
| 43 N 780  | E    | 2RA18†    | 22-18     |           | 6.88               |
| 43 N 781  | E    | 2RB14†    | 16-14     |           | 6.88               |
| 43 N 782  | H    | B14-250F† | 20-14     |           | 4.80               |
| 43 N 783  | G    | B14-250T† | 20-14     |           | 4.80               |

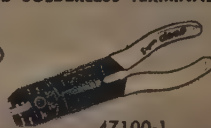
## A-MP CRIMPING TOOLS AND SOLDERLESS TERMINALS



Terminal Kit



49835-1



47100-1

**TERMINAL KIT.** Contains assortment of most popular types of solderless terminals for general wiring applications plus, the heavy-duty "Super Champ" crimping and wiring tool described below. Terminals and tool come in one handy, compact, transparent plastic case with compartments. Ideal for radio-TV and electrical servicemen, automobile repairmen, hobbyists, etc. Eliminates need for soldering—saves time and labor. For all wire sizes from 10 to 22, and most often-used stud sizes. Dimension of case, 9 1/2 x 6 1/2 x 2". Shpg. wt., 2 lbs.

45 N 322. NET.....19.95

**"SUPER CHAMP" CRIMPING TOOL TYPE 47100-1.** Crimps insulated solderless terminals; shears machine screws, measures stud sizes, cuts and strips wire. Of tool steel; has insulated plastic handles. Wt., 1 lb.

45 N 321. NET.....4.95

**TYPE 49835-1.** Same as above, but for crimping non-insulated terminals.

44 N 453. NET.....4.95

**GENERAL WIRING TERMINALS.** \*Insulated terminals—plastic outer sleeves. Wire size, 14 to 16, except 116 to 22, U.L. Approved. Shpg. wt., 8 oz. per pkg. 100 per package.

| Stock No. | Fig. | Mfr's No. | Type   | Stud Size | PER PKG. |
|-----------|------|-----------|--------|-----------|----------|
| 45 N 301  | R    | 34149*    | Ring   | 8-10      | 6.25     |
| 45 N 302  | R    | 34142*    | Ring   | 4-6       | 6.25     |
| 45 N 303  | E    | 34070*    | Butt   | 8-10      | 7.50     |
| 45 N 304  | R    | 34158*    | Ring   | 8-10      | 6.25     |
| 45 N 305  | R    | 34161*    | Ring   | 8-10      | 6.25     |
| 45 N 306  | S    | 34165*    | Spade  | 4-6       | 6.25     |
| 45 N 307  | S    | 34167*    | Spade  | 8-10      | 6.25     |
| 45 N 308  | E    | 34071*    | Butt   | 8-10      | 7.50     |
| 45 N 309  | S    | 34154*    | Spade  | 8-6       | 6.25     |
| 45 N 310  | A    | 33214†    | King   | 5-12      | 4.46     |
| 45 N 311  | A    | 34194†    | Ring   | 4-6       | 3.91     |
| 45 N 312  | T    | 31818†    | Butt   | 4-6       | 4.66     |
| 45 N 313  | A    | 34197     | Ring   | 4-6       | 4.46     |
| 45 N 314  | A    | 33217     | Ring   | 8-10      | 3.91     |
| 45 N 315  | B    | 33477     | Spade  | 4-6       | 4.99     |
| 45 N 316  | B    | 33219     | Spade  | 8-10      | 4.99     |
| 45 N 317  | W    | 31762†    | Knife  | .....     | 9.23     |
| 45 N 318  | W    | 31763     | Knife  | .....     | 9.23     |
| 45 N 319  | C    | 34846     | Plug   | .....     | 2.25     |
| 45 N 320  | C    | 36840*    | Recep. | .....     | 6.96     |

## VACO SERVICE KIT

**MODEL 2195.** Handy kit contains \$5.00 worth of solderless terminals in assorted sizes, in addition to Type 1900 crimping-cutter tool described on next page. The wide selection of types and sizes permits making almost any type of lug connection in radio or TV work. Terminals with \* in listing at top of page included in kit. Clear plastic case. Size, 8 3/4 x 6 x 1 3/4". Shpg. wt., 2 lbs.

44 N 429. NET.....8.77



## THOMAS & BETTS INSTALLING TOOLS

**X NO. 2 TERMINAL KIT.** You get a perfect electrical connection everytime with this pressure-type terminal kit. Has 250 assorted solderless wire terminals, and WT-111M installing tool, described below. With plastic case; 1 1/2 x 4 x 8". Wt., 2 lbs.

50 N 612. NET.....6.50

**PK4 TERMINAL KIT.** (Not illus.) A complete assortment of 450 terminals, along with a WT-152 cushion-grip installing tool. Specially designed for electrical contractors, industrial maintenance electricians, etc. Used to terminate or splice size #22-#10 AWG wire. Compartmentalized, clear plastic case, 3 x 8 x 9". Shpg. wt., 4 lbs.

50 N 611. NET.....29.75

**Y MODEL WT-111M.** High quality wide-range plier tool with rugged wire cutters. For use with series A, B, and C units. Specially designed for electrical contractors, industrial maintenance electricians, etc. Used to terminate or splice size #22-#10 AWG wire. Compartmentalized, clear plastic case, 3 x 8 x 9". Shpg. wt., 4 lbs.

43 N 784. NET.....3.50

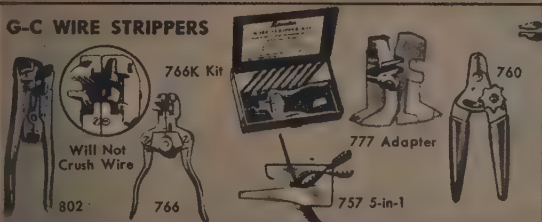
**Z MODEL WT-100.** Versatile tool installing terminals for wire sizes #22-#10; splices wire joints; cuts or strips both stranded and solid wires. Stakes insulated and bare terminals. Measures bolt lengths; chases and cleans bolt threads; cuts through bolts up to #10 size. Shpg. wt., 1 lb.

42 N 845. NET.....3.95



# Wire Strippers, Staplers & Terminal Tools

## G-C WIRE STRIPPERS



completely eliminate damage from pulling nipping on wire ends. Remove insulation from all types—no crushing or nicking wire. Strip wire ends or any spot along wire.

**UXE MODELS.** Has "delayed return action" to prevent crushing stranded wires. Hardened steel blades. Wt., 1 1/4 lbs.  
**N 225.** Type 766. For 12 to 20 wire.  
**N 226.** Type 766A. For 14 to 30. **5.82**  
**EACH.**

**STANDARD MODELS.** As above; without "delayed return action." Hardened blades. Wt., 1 1/4 lbs.

**N 003.** Type 733. For 12—20 wire.  
**N 004.** Type 733A. For 14—30 wire. **4.66**  
**EACH.**

**MODEL 802.** Strips insulation from 10 to 22 gauge wire. "Stay-open" feature prevents jamming. Has automatic stop return and built-in wire cutter. Blades of hardened steel. Shpg. wt., 8 oz. **5.82**  
**N 341.** NET.

### Stripper Blades for Model 802

| Stock No. | Mfr's Type | For Wire | NET EACH |
|-----------|------------|----------|----------|
| N 344     | 812        | 10-22    | 1.62     |
| N 345     | 813        | 8-14     | 1.62     |

## VACO CRIMPING TOOLS



**MODEL 1906.** Designed for insulated solderless terminals. Strips insulation from #22 to AWG wire. Has 2 dies, steel jaws. With plastic handles. Wt., 1 lb.  
**N 059.** NET. **4.16**

**MODEL 1900.** As above, except for non-insulated solderless terminals. With 3 crimping dies. Shpg. wt., 1 lb.  
**N 058.** NET. **3.87**

## VACO SOLDERLESS TERMINALS

**ECONOMY PACK.** Selection of popular types and sizes of Vaco terminals in quantities of less than 100. For general-purpose servicing, repairing automotive electrical systems, etc. Provide reliable connections without soldering. Av. shpg. wt. per pkg., 3 oz.

| Stock No. | Fig. | Mfr's No. | Wire Size | Stud Size | Lgth.  | Pkg. Qty. |
|-----------|------|-----------|-----------|-----------|--------|-----------|
| N 476     | F    | 2300      | 22-16     | 4-6       | 1 1/2" | 41        |
| N 481     | F    | 2301      | 22-16     | 4-6       | 3/4"   | 41        |
| N 482     | F    | 2302      | 12-10     | 8-10      | 3/4"   | 41        |
| N 487     | F    | 2400      | 16-14     | 4-6       | 1 1/2" | 41        |
| N 485     | F    | 2401      | 16-14     | 4-6       | 3/4"   | 41        |
| N 486     | F    | 2402      | 16-14     | 8-10      | 3/4"   | 41        |
| N 489     | F    | 2502      | 12-10     | 8-10      | 3/4"   | 32        |
| N 490     | F    | 2503      | 12-10     | 12-14     | 2 1/2" | 24        |
| N 498     | G    | 2600      | 22-16     | 4-6       | 3/4"   | 45        |
| N 492     | G    | 2601      | 16-14     | 4-6       | 3/4"   | 41        |
| N 493     | G    | 2602      | 16-14     | 8-10      | 3/4"   | 41        |
| N 494     | G    | 2702      | 12-10     | 8-10      | 3/4"   | 32        |
| N 499     | H    | 3300      | 22-16     | 4-8       | 3/4"   | 45        |

**NET PER PKG.** **98c**

**TYPE 766K KIT.** Versatile kit fills most needs. Contains Deluxe Stripper, 7 different size hardened steel blades in special steel box, and guide listing of blades to use. For #8 to #30 wire. Shpg. wt., 2 1/4 lbs.  
**46 N 229.** NET. **11.73**

**TYPE 757 5-IN-1.** Can be used as a wire stripper, cutter, scraper, winder, and screwdriver. Shpg. wt., 3 oz.  
**43 N 905.** NET. **29c**

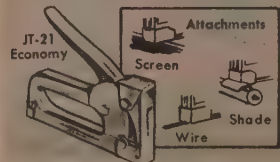
**MODEL 777 TEFLON ADAPTER.** To strip Teflon wire. Shpg. wt., 4 oz.  
**50 N 346.** NET. **1.22**

**TYPE 760 STRIP-ER-CLIP.** 7-stop gauge adjusts to number sizes, 14 to 26 gauge. Safeguard prevents nicking or cutting. Of heat-treated steel, insulated grip. Wt., 8 oz.  
**50 N 347.** NET. **1.35**

## UTICA "STRIPWRIGHT" WIRE STRIPPER

**A** MODEL SW-1. Valuable tool for electricians and radio-TV repairmen. Prevents wire nicking; strips Teflon as well as most other solid and stranded wire. Cam action calibrated dial adjusts to wire sizes from Nos. 12 to 26. For use in limited access areas; permits stripping at any point. Comfort-grip handles. Shpg. wt., 7 oz.  
**50 N 680.** List, \$19.95. NET. **14.90**

## ARROW STAPLE GUNS AND KITS



**MODEL JT-21 JR. ECONOMY-STAPLER.** Efficient easy-action gun. Built-in staple extractor and gun lock. All-steel construction. Loads 100 staples. 5/16x7x3/8". Less staples. Shpg. wt., 1 lb.  
**45 N 653.** List, \$4.95. NET. **3.97**

**MODEL T-25 CABLE STAPLER.** For round wires or objects up to 1/4" dia. Loads 85 staples. 5/16x7x3/8". Wt., 2 1/4 lbs.  
**46 N 491.** List, \$15.00. NET. **12.49**

**MODEL T-75 STAPLER.** As above, for 1/2" dia. Loads 53 staples. 5/16x7x3/8". 2 1/2 lbs.  
**46 N 493.** List, \$18.00. NET. **14.99**

### STAPLES FOR ARROW GUNS

| Stock No. | For Model | Width  | Length | Quantity | Lbs. | Net  |
|-----------|-----------|--------|--------|----------|------|------|
| 45 N 654  | JT-21     | 13/16" | 5/8"   | 1000     | 3/4  | 4.9c |
| 45 N 655  | JT-21     | 13/16" | 3/4"   | 1000     | 3/4  | 4.9c |
| 47 N 096  | T-32      | 7/8"   | 3/4"   | 5000     | 1    | 1.87 |
| 46 N 063  | T-32      | 7/8"   | 3/4"   | 5000     | 1    | 2.08 |
| 45 N 793  | T-50      | 3/4"   | 3/4"   | 5000     | 1    | 2.08 |
| 45 N 789  | T-50      | 3/4"   | 5/8"   | 5000     | 1    | 2.20 |
| 45 N 792  | T-50      | 3/4"   | 3/4"   | 5000     | 1    | 2.29 |
| 46 N 294  | T-500T    | 3/4"   | 3/4"   | 5000     | 1    | 3.20 |
| 45 N 790  | T-25      | 5/8"   | 3/4"   | 5000     | 1    | 3.33 |
| 46 N 492  | T-25      | 5/8"   | 3/4"   | 5000     | 1    | 3.33 |
| 45 N 791  | T-75      | 3/4"   | 3/4"   | 5000     | 1    | 3.74 |
| 45 N 798  | T-75      | 3/4"   | 3/4"   | 1000     | 1/4  | 1.88 |
| 45 N 799  | T-75      | 3/4"   | 3/4"   | 1000     | 1/4  | 1.88 |
| 46 N 494  | T-75      | 3/4"   | 3/4"   | 1000     | 1/4  | 2.08 |

## K. MILLER WIRE STRIPPERS—CUTTERS

**B** MODEL 101-S. Strips insulation from wire up to #8, solid or stranded. Spring lock holds blades closed when not in use. 5" long. Shpg. wt., 4 oz.  
**46 N 246.** NET. **1.17**

**MODEL 100.** As above, but without spring action. Shpg. wt., 4 oz.  
**50 N 338.** NET. **87c**

**C** MODEL 200. Coaxial cable stripper, cutter and slitter. Blades adjust for RG59/ cable. Tool steel blades. Wt., 8 oz.  
**50 N 339.** NET. **13.47**

## WALSCO "TWISTO" WIRE STRIPPER

**D** TYPE 592-00. For rapid removal of insulation from wire sizes 12-22. Built-in stop for production stripping. Spring steel blades. 4 1/2" long. Shpg. wt., 8 oz.  
**46 N 440.** NET. **2.94**  
**592-03 REPLACEMENT BLADES.** 2 oz.  
**46 N 441.** NET PER SET. **66c**

## MPC WIRE STRIPPER

**E** Spring-steel, wire stripper and cutter. Adjustable cutting blade gap for wire up to #12. 5 3/4" long. Shpg. wt., 5 oz.  
**46 N 036.** NET. **79c**



**T-50 GENERAL-PURPOSE STAPLER.** Heavy-duty gun takes 1/4" to 3/8" staples for use in almost any tacking job, including ceiling tiling. Double leverage action for powerful drive with minimum squeeze pressure. Patented non-jamming mechanism. All-steel with chrome finish. Loads 85—050" staples. 5/16x7x3/8". Shpg. wt., 2 lbs.  
**46 N 292.** List, \$12.50. NET. **10.41**

**T-50MP KIT.** Includes T-50 gun, 5000 staples (assorted, 1/4" to 3/8"), and 4 attachments (listed below). Shpg. wt., 5 1/2 lbs.  
**50 N 466.** List, \$17.50. NET. **14.57**

### T-50 ATTACHMENTS

| Stock No. | Type | Description             | Oz. | NET |
|-----------|------|-------------------------|-----|-----|
| 52 N 701  | T-50 | Screen Attachment       | 3   | 85c |
| 52 N 702  | T-50 | Wire Attachment         | 3   | 85c |
| 52 N 703  | T-50 | Window Shade Attachment | 3   | 85c |
| 52 N 704  | T-50 | Staple Lifter           | 3   | 85c |

**T-32 MEDIUM-DUTY STAPLER.** Excellent for tacking down 300-ohm twin-lead, intercom cable, acoustic padding, grille cloth, screens, shades, upholstery, light insulation or plastic sheeting. Non-jamming mechanism has double leverage action. All-steel, chrome. Safety-lock handle. Loads 150—.032" staples. 5x7x3/8". Wt., 1 1/4 lbs.  
**46 N 062.** List, \$10.50. NET. **8.74**

# Chemicals, Paints, Tube Caddies



## KRYTOX and ENAMEL SPRAYS

Protect and preserve  
electronic equipment

**CLEAR PLASTIC SPRAYS.** Can sprays a crystal-clear acrylic that dries in minutes to form a hard, waterproof coating of high dielectric strength. Eliminates corona and arcing when sprayed on high voltage leads, coils, and connections. Ideal for use on high-voltage rectifier sockets, RF transformers, etc. Dielectric strength: 400 volts per mil. Has many uses around shop and home, also on installation and service jobs. Comes in handy. 16-oz. spray can. Wt., 1½ lbs.  
**43 N 133, 1-11. NET EACH.....1.27**  
 12 or More, EACH.....1.17

**ENAMEL SPRAYS.** Attractive, non-fading. Wide variety of colors. Dry in 3 minutes. Non-clogging spray valve. 16 oz. can, 1¼ lbs.

| No.    | Color         | No.    | Color         |
|--------|---------------|--------|---------------|
| 43N134 | Bright Silver | 43N109 | Bright Gold   |
| 43N064 | Bright Copper | 43N107 | Hunter Green  |
| 43N059 | Flat White    | 45N208 | Surf Green    |
| 43N137 | Glossy White  | 43N054 | Chrome Yellow |
| 45N206 | Antique Ivory | 43N384 | Champion Blue |
| 43N106 | Flat Black    | 43N055 | Regal Blue    |
| 43N138 | Glossy Black  | 43N056 | Cherry Red    |
| 43N053 | Light Gray    | 43N044 | O. D. Khaki   |
| 43N108 | Machine Gray  | 43N043 | Int'l Orange  |
| 45N207 | Dove Gray     | 43N383 | Brass         |

12 or More, EA. 1.07 1-11, NET EACH.....1.17

**"RUST MAGIC PRIMER"** Phenolic resin, anti-rust primer. Pierces existing rust and prevents further corrosion. Dries in 20 minutes. Covers with nearly any finish. 16-oz. aerosol spray-on can. 1½ lbs.

**43 N 385, 1-11, NET EA.....1.17**  
 12 or More, EA.....1.07

**ZINC-CHROMATE PRIMERS.** Metal primer dries rapidly to form a strong bond with metal. Resists peeling or cracking. Retards rust. Accepts finish coats readily. Ideal for prime coating metal gutters, towers, mast, etc. 16-oz. spray can. 1½ lbs.

**45 N 210, Yellow Primer, NET.....1.27**

**45 N 211, Green Primer, EACH.....1.27**  
 12 or More, EACH.....1.17

## JET-PAK SPRAYON OUTFIT

Completely  
Hand-held—  
Spray Paints,  
Cleaners, Waxes

\$1.98



Spray any liquid with this handy spray outfit. Works at a touch of a button. Uses no cords, no hoses. Powerful gas cartridge acts as power unit. Sprays up to 32 ounces of paints, insecticides, etc. Includes head assembly, 4-oz. glass jar, 15 oz. spray-on power unit. 1½ lbs.

**47 N 086, NET.....1.98**

**47 N 087, 15-oz. Refill, 1 lb. NET.....1.20**

**47 N 088, Extra 4-oz. Jar, NET.....1.30**

## G-C GUN TYPE SPRAY CAN HANDLE



Inexpensive spray can handle attaches to any spray can—converts the can into a spray gun! Useful in home, shop or office for applying paints, service chemicals, cleaners, etc. Shpg. wt., 3 oz.

**45 N 201, NET.....87c**



## SERVICING CHEMICALS



**A RAPID "BRUSHPLATER."** For electroplating of small metal items. Includes 1 oz. cleaner, 1 oz. polish, plating compound, ¼" brush wires and clips, and polishing stick. Requires 2 #6 1½ v. cells, 1 lb.

| Stock No. | Type | Compound  | NET  |
|-----------|------|-----------|------|
| 43 N 080  | 200  | Nickel    | 1.67 |
| 43 N 081  | 202  | Cadmium   |      |
| 43 N 082  | 204  | Copper    |      |
| 43 N 083  | 205  | Brass     |      |
| 43 N 084  | 206  | Silver    | 2.66 |
| 43 N 085  | 207  | 24 K Gold | 4.61 |

**B "NO NOISE" SOLUTION.** For cleaning and lubricating controls, switches, etc. In 6 oz. spray can, 2 oz. bottle has dropper. Shpg. wts., 6-oz. can, 10-oz., 2-oz. bottle, 6 oz.

**43 N 142, 6 oz. NET.....2.20**  
**43 N 143, 2 oz. NET.....98c**

**C QUIETROLE CLEANER AND LUBRICANT.** General purpose cleaner and lubricant. Eliminates noises from front end tuners and volume controls, switches, contacts, etc., without removal from chassis. Non-flammable and non-corrosive; remains effective indefinitely. An indispensable item for the radio-TV serviceman. Shpg. wts., 2-oz. bottle, 7 oz.; 4-oz. bottle, 14 oz. \*With eye dropper.

**43 N 102, 2-oz. bottle, NET.....1.35**

**43 N 103, 4-oz. bottle, NET.....2.03**



**F DEVCON LIQUID ALUMINUM.** For fast repairs—just squeeze from the tube and apply. Real aluminum in paste form bonds, seals, fills, mends all types of material. Hardens to metal; fixes pipes, furniture, sporting goods, etc. Shpg. wt., 8 oz.  
**50 N 579, NET.....75c**

**DEVCON REAL RUBBER.** Makes all kinds of permanent repairs. Seals, waterproofs, and insulates. Hundreds of uses in the shop and home. Shpg. wt., 8 oz.  
**50 N 578, NET.....75c**

**Devcon "Steel."** Paste form steel bonds metals, plastics, wood, etc. Wt., 8 oz.  
**50 N 580, NET.....75c**

**G G-C "EPOX" CEMENT KIT.** Super-strong adhesive provides high adhesion and bond strength. Excellent for cementing ceramics, metals, glass, plastics and other non-porous materials. Resists moisture, solvents, fungus, heat, etc. 4 oz.

**50 N 574, NET.....1.91**

## G-C SPRAY CAN EXTENSION



Spray can attachment for concentrating and directing spray. End of 9" extension tubing will fit the nozzle of any spray

can. Shpg. wt., 2 oz.

**45 N 202, NET.....66c**

**D CHEMTRONICS "NO-ARC."** High voltage insulator in a spray can. 20,000 v. breakdown, 8 fluid oz. 1 lb.  
**50 N 694, NET.....2.79**

**Quietrole Spray Pack.** A lubricant and cleaner in a handy spray can. For controls, switches, etc. Shpg. wt., 10 oz.  
**50 N 719, NET.....2.73**

**E INSL-X TOOL DIP.** A red liquid plastic that hardens into insulating coating when applied to handles of pliers, wrenches and other tools used in electrical work. Corrosive resistant. Dries in 24 hours. Remove cap from container and dip handle of tool into liquid; may be dipped repeatedly.

| Stock No. | Contents | Shpg. Wt. | NET EACH | 24-Up, EACH |
|-----------|----------|-----------|----------|-------------|
| 42 N 400  | 6 oz.    | 10 oz.    | 1.25     | 1.12        |
| 42 N 401  | 32 oz.   | 2¼ lbs.   | 3.40     | 3.06        |

**INSL-X E-26 INSULATING SPRAY.** Highly effective, clear-plastic electrical insulation in handy spray-can dispenser. Provides an unusually convenient and dependable method for insulating electronic components, terminals, circuit wiring and tools. Tough and durable. Has dielectric strength of 800 to 1200 volts per mil. In 12-oz. can with non-clogging valve. 1½ lbs.

**42 N 402, 1 to 23, NET EACH.....1.10**

24 or More, EACH.....1.07



## WALSCO PROTECTO-TUBE

**TYPE 18-K.** Plastic high-voltage tubing for insulating pliers, screwdrivers, etc. Expanding solution swells tubing for application. Tubing then shrinks and remains in place. Contains 12 ft. of tubing and expanding solution. Shpg. wt., 12 oz.  
**43 N 132, NET.....1.17**

## ARGOS TV TUBE CADDIES



**SUPER TUBE CADDY.** A ruggedly built, double-door tube caddy that provides quick accessibility to tubes, tools, and small parts. Carries up to 325 tubes; has plenty of space for meters, soldering guns, assorted leads, tools—plus fuses, bulbs and other small parts. Convenient, removable tray, "Egg crate" design for small parts. Hand-

somely styled in gray tweed leatherette with handle. 16½x24x8½". Wt., 19 lbs.

**86 NX 153, List, \$36.00, NET.....21.51**

**CARRY-ALL CADDY.** Extremely versatile tube caddy. Carries up to 262 tubes—with space for soldering gun, meter, probes, and assorted small parts. Opens outward from the center to permit easy access to contents. Finished in gray tweed leatherette. 8x15x21". Shpg. wt., 13 lbs.  
**86 NX 129, List, \$26.50, NET.....15.63**

**JUNIOR TUBE CADDY.** Smaller version of Carry-All Caddy listed above. Easy to carry size holds up to 143 tubes, tools, meters, etc. Size, 15½x12½x8". Wt., 10 lbs.

**86 NX 155, List, \$18.25, NET.....10.73**



# G-C Paints and Chemicals



## RADIO-TV SERVICING CHEMICALS

An extensive listing of switch contact cleaners, control lubricants, solvents, cements, liquid insulation, and various other chemicals for simplifying and speeding up servicing of radios, TV sets, record changers and turntables, tape recorders, and other electronic equipment. Available in sizes to meet the requirements of any workshop.



**SPRA-KOAT® WRINKLE VARNISH.** Can be air dried or baked—gives a professional-looking wrinkle finish. Makes composition and bakelite panels look like wrinkleless steel panels. 16 fl. oz. In convenient can. Shpg. wt., 1 1/4 lbs.

| Stk No. | Type  | Color | 1-5, EA. | 6-Up, EA. |
|---------|-------|-------|----------|-----------|
| 428     | 60-12 | Black | 2.20     | 1.98      |
| 429     | 60-13 | Gray  |          |           |

**PHONE BLACK AND GRAY.** A stain finish net. Black is for power control and meters. Gray gives professional appearance to test equipment, etc. Dries quickly. wood or metal. 16 fl. oz. 1 1/4 lbs.

| Stk No. | Type  | Color | 1-5, EA. | 6-Up, EA. |
|---------|-------|-------|----------|-----------|
| 4033    | 62-12 | Black | 2.25     | 2.02      |
| 4034    | 62-13 | Gray  |          |           |

**IMER FINISH.** For applying professional mer finish to panels, racks, chassis and instrument cases. Moisture-proof. Air-dries kly. 16 fl. oz. Shpg. wt., 1 1/4 lbs.

| Stk No. | Type  | Color  | 1-5, EA. | 6-Up, EA. |
|---------|-------|--------|----------|-----------|
| 4035    | 83-12 | Brown  | 2.25     | 2.02      |
| 4036    | 84-12 | Blue   |          |           |
| 4037    | 85-12 | Silver |          |           |

**O-MIST® SPRAY.** Locates intermittents caused by temperature changes. Spray suspected components one at a time—cools immediately. Pinpoints faulty capacitors, resistors, transistors, cold solder joints, etc. 16 fl. oz. Shpg. wt., 1 1/4 lbs.

N 099, NET.....2.37

**KA-KLEEN® CONTACT CLEANER.** Efficient cleaner—simply spray and work mechanism over times. 6 fl. oz. Shpg. wt., 10 oz.

N 025, NET.....97c

**NO. 60 "RUF-KOAT" VARNISH.** Air-drying wrinkle varnish for amplifiers, test equipment, chassis, etc. Gives a professional-looking appearance—same as used by manufacturers. Can be air-dried or baked.

| Stk No. | Brown    | Gray     | Size      | Lbs.  | NET   |
|---------|----------|----------|-----------|-------|-------|
| 722     | 50 N 723 | 50 N 724 | 2 fl. oz. | 1/4   | .65   |
| 483     | 43 N 484 | 43 N 485 | 16 oz.    | 1 1/4 | 2.20  |
| 727     |          |          | 1 gal.    | 10    | 14.86 |
|         | 50 N 728 | 50 N 729 | 1 gal.    | 10    | 15.60 |

**SILICONE RESIN SPRAY.** Forms protective coating which insulates, waterproofs, provides barrier against dust. Dries idly. 6 oz. spray can. Wt., 10 oz.

N 027, NET.....2.37

## MISCELLANEOUS PAINT AND FURNITURE REPAIR KITS

**NO. 21 SILVER PRINTED CIRCUIT PAINT.** Use to repair, touch up, or design printed circuits. 1 Troy oz. Shpg. wt., 4 oz.

N 159, NET.....4.56

**NO. 20 COPPER PAINT.** As above, but copper. 2 fl. oz. Shpg. wt., 4 oz.

N 079, NET.....1.40

**TYPE 901 CABINET REPAIR KIT.** Includes shellac sticks, stains, varnish, scratch remover, alcohol lamp, alcohol, rags, brushes, steel wool, sandpaper, and sh. In metal box. 3 lbs.

N 115, NET.....6.34

**EA COLOR CODING KIT.** Fast drying lacquer enamels—black, brown, red, orange, yellow, green, blue, purple, gray, and white. With brushes. 1 1/2 lbs.

N 112, NET.....1.44

**[G] TYPE 184-O LUMINOUS "LITE-KOAT" KIT.** Long life, non-toxic coating that emits light in the dark. Kit contains powder, thinner and protective compound. Easy to use. Shpg. wt., 2 1/4 lbs.

43 N 111, NET.....3.18

**[H] TYPE 66-5 "DIAL-LITE" COLORING KIT.** For bulbs, dials, etc.—instant drying, bright, long lasting. Kit includes: red, green, blue, amber, solvent. Bulbs may be colored by dipping or by brushing. Wt., 4 oz.

43 N 110, NET.....1.20

**SCRATCH KITS.** Not illustrated. For covering scratches in wood furniture. Easily applied; has built-in brush applicator. Shpg. wt., 5 oz.

43 N 113, Type 909-M, Mahogany.

43 N 368, Type 909-W, Walnut.

43 N 369, Type 909-I, Oak.

NET EACH.....47c



## LUBRICANTS

| Stock No. | Mfr's Type | Size    | Shpg. Wt.  | Description                   | NET EACH |
|-----------|------------|---------|------------|-------------------------------|----------|
| 43 N 046  | 65-16      | 16 oz.  | 1 1/4 lbs. | Control cleaner and lubricant | 1.91     |
| 47 N 038  | 1206       | 2 oz.   | 3 oz.      | Lube-Rex cleaner in tube      | .44      |
| 47 N 040  | 1223       | 2 oz.   | 3 oz.      | "Slide-Put" Phono Lubricant   | .53      |
| 47 N 042  | 8383       | 9 oz.   | 4 oz.      | Cap Needle Injector w/bottle  | .47      |
| 47 N 041  | 9402       | 3/4 oz. | 2 oz.      | Radio-TV oil; vial dispenser  | .38      |

## CEMENTS AND THINNERS

|          |       |       |            |                                        |      |
|----------|-------|-------|------------|----------------------------------------|------|
| 43 N 456 | 30-2  | 2 oz. | 6 oz.      | Radio and Speaker Service Cement       | .47  |
| 43 N 166 | 30-8  | 8 oz. | 1 1/4 lbs. | Radio and Speaker Service Cement       | 1.23 |
| 43 N 451 | 31-2  | 2 oz. | 6 oz.      | Radio Service Solvent                  | .78  |
| 43 N 163 | 31-8  | 8 oz. | 1 1/4 lbs. | Radio Service Solvent                  | .79  |
| 43 N 296 | 32-2  | 2 oz. | 6 oz.      | Bakelite Cement                        | .68  |
| 47 N 043 | 32-2A | 2 oz. | 6 oz.      | All-Purpose Plastic Cement             | .47  |
| 43 N 465 | 35-2  | 2 oz. | 6 oz.      | Rubber-to-Metal and Phono Drive Cement | .52  |
| 43 N 466 | 35-4  | 4 oz. | 1/2 lb.    | Rubber-to-Metal and Phono Drive Cement | .78  |
| 43 N 210 | 43-2  | 2 oz. | 6 oz.      | "Pli-O-Bond" Plastic Cement            | .52  |
| 43 N 211 | 43-8  | 8 oz. | 1 1/4 lbs. | "Pli-O-Bond" Plastic Cement            | 1.34 |
| 50 N 591 | 59-2  | 2 oz. | 6 oz.      | Label Cement                           | .47  |

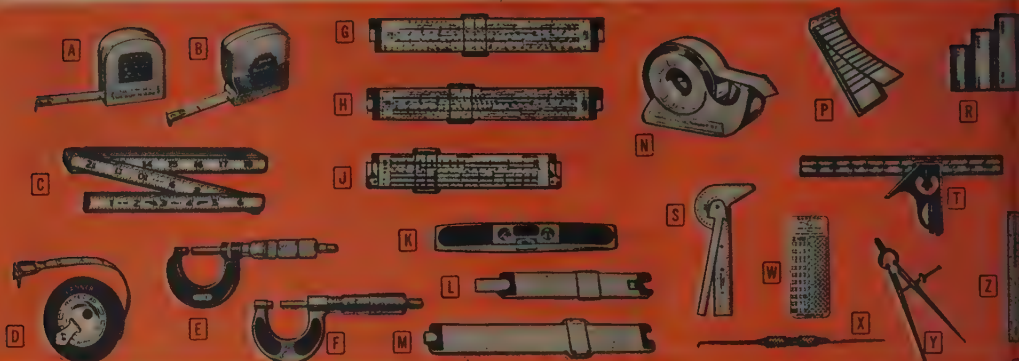
## CLEANERS

|          |        |        |            |                                      |      |
|----------|--------|--------|------------|--------------------------------------|------|
| 43 N 479 | 10-G   | 1 gal. | 10 lbs.    | Non-Toxic "Electro-Tet" Cleaner      | 6.94 |
| 43 N 27  | 19-1   | 1 oz.  | 4 oz.      | "De-Ox-Id" Contact Cleaner           | .65  |
| 43 N 128 | 19-2   | 2 oz.  | 6 oz.      | "De-Ox-Id" Contact Cleaner           | .94  |
| 45 N 203 | 53-1   | 1 oz.  | 4 oz.      | Recording Head Cleaner               | .56  |
| 45 N 204 | 53-2   | 2 oz.  | 2 oz.      | Recording Head Cleaner               | .94  |
| 50 N 575 | 98-12  | 12 oz. | 1 1/4 lbs. | Rek-O-Magic Anti-Static Record Spray | 1.82 |
| 43 N 463 | 107-4  | 2 oz.  | 6 oz.      | Contact and Crystal Cleaner          | .65  |
| 50 N 730 | 127-8  | 8 oz.  | 1 1/4 lbs. | Contact and Crystal Cleaner          | 1.11 |
| 43 N 160 | 210-2  | 2 oz.  | 6 oz.      | Electronics Contact Cleaner          | .53  |
| 43 N 161 | 210-4  | 4 oz.  | 1 1/4 lbs. | Electronics Contact Cleaner          | .65  |
| 43 N 468 | 201-16 | 16 oz. | 2 1/4 lbs. | Electronics Contact Cleaner          | 1.47 |
| 47 N 044 | 211-4  | 4 oz.  | 1/2 lb.    | Carbon Tetra-Chloride                | .71  |
| 43 N 453 | 846-2  | 2 oz.  | 6 oz.      | "De-Ox-Id" Kit—Contact Cleaner       | 1.38 |
| 50 N 731 | 8680   | 4 oz.  | 10 oz.     | Siliconized Contact Cleaner          | 1.75 |

## MISCELLANEOUS CHEMICALS

| Stock No. | Mfr's Type | Size   | Shpg. Wt.  | Description                            | NET EACH |
|-----------|------------|--------|------------|----------------------------------------|----------|
| 43 N 472  | 37-2       | 2 oz.  | 6 oz.      | "O-Dope" (Coil Dope)                   | .47      |
| 43 N 723  | 37-16      | 16 oz. | 2 1/4 lbs. | "O-Dope" (Coil Dope)                   | 2.14     |
| 43 N 469  | 41-2       | 2 oz.  | 6 oz.      | "O-Dope" Thinner                       | .44      |
| 43 N 145  | 47-2       | 2 oz.  | 6 oz.      | TV High Voltage Corona Dope            | .71      |
| 43 N 454  | 47-8       | 8 oz.  | 1 1/4 lbs. | TV High Voltage Corona Dope            | 1.94     |
| 47 N 045  | 47-12      | 12 oz. | 2 1/4 lbs. | TV High Voltage Corona Dope            | 2.37     |
| 43 N 474  | 49-2       | 2 oz.  | 6 oz.      | "TV Tube Koat" (recasts picture tubes) | .71      |
| 50 N 733  | 49-12      | 12 oz. | 2 1/4 lbs. | "TV Tube Koat" (recasts picture tubes) | 1.91     |
| 43 N 455  | 50-2       | 2 oz.  | 6 oz.      | "Red-X" TV High Voltage Corona Dope    | .71      |
| 47 N 046  | 56-2       | 2 oz.  | 6 oz.      | Insulating and Dipping Varnish         | .53      |
| 43 N 476  | 57-2       | 2 oz.  | 5 oz.      | Fungus Varnish                         | .56      |
| 43 N 460  | 90-2       | 2 oz.  | 6 oz.      | Red Glyptal Insulating Varnish         | .56      |
| 43 N 461  | 90-8       | 8 oz.  | 1 1/4 lbs. | Red Glyptal Insulating Varnish         | 1.62     |
| 47 N 047  | 95-8       | 8 oz.  | 1 1/4 lbs. | Crete-O-Wax Cabinet Polish             | .59      |
| 50 N 720  | 161-2      | 2 oz.  | 6 oz.      | Mahogany Touch Up Stain                | .47      |
| 50 N 721  | 161-2      | 2 oz.  | 6 oz.      | Walnut Touch Up Stain                  | .47      |
| 50 N 593  | 163-16     | 16 oz. | 2 1/4 lbs. | Rubbing Oil                            | 1.41     |
| 50 N 589  | 176-2      | 2 oz.  | 6 oz.      | Liquid Tape                            | .97      |
| 50 N 590  | 176-6      | 16 oz. | 2 1/4 lbs. | Liquid Tape                            | 5.88     |
| 47 N 048  | 1215       | 2 oz.  | 6 oz.      | Liquid Non-Slip (drive cables, belts)  | .47      |
| 47 N 049  | 9123       | 12 oz. | 1 1/4 lbs. | Koloid K-29 Hi-Voltage Spra-Koat       | 1.79     |
| 43 N 009  | 8101       | 1 oz.  | 2 oz.      | Transistor Z5 Silicone Compound        | 2.06     |

# Measuring Tools, Slide Rules, Labeling Tapes



## LUFKIN TAPE AND WOOD RULES

**A** WHITE CLAD "MEZURALL" STEEL TAPE RULES. For construction and general home use. Easy-to-read jet black markings against a durable, white background on tempered steel blade. Self-adjusting end hook for accurate butt end and hook-over measurements. Marked on both edges, one side. First 12 inches of upper edge graduated to 32nds; balance to 16ths.

| Stock No. | Type  | Feet | Oz.   | List   | NET  |
|-----------|-------|------|-------|--------|------|
| 50 N 175  | W926  | 6    | 4     | \$1.19 | .80  |
| 50 N 176  | W928  | 8    | 5     | 1.39   | .93  |
| 50 N 177  | W9210 | 10   | 6     | 1.69   | 1.13 |
| 50 N 178  | W9212 | 12   | 7 1/2 | 1.98   | 1.32 |

**B** "MEZURMATIC" TAPE RULES. Ball-bearing rewind, heavy-duty end hooks, non-slip scales. Foot and inch graduations to 16ths of an inch on both edges, first 12" graduated to 32nds on one edge. Have black markings on a white background, except \*which are chrome-plated.

| Stock No. | Type   | Feet | Oz.   | List   | NET  |
|-----------|--------|------|-------|--------|------|
| 50 N 179  | W928   | 8    | 7     | \$1.69 | 1.13 |
| 50 N 180  | W9210  | 10   | 7 1/2 | 1.98   | 1.33 |
| 50 N 181  | W9212  | 12   | 8     | 2.29   | 1.53 |
| 50 N 182  | C728*  | 8    | 7     | 2.40   | 1.60 |
| 50 N 183  | C7210* | 10   | 7 1/2 | 2.70   | 1.80 |

**C** WOOD RULES. Study 6-ft. folding rules. 6" hardwood sections with brass-plated steel joints and end caps. Graduated to 16ths. Regular markings. 1/4 lb.  
50 N 581. List, 98c. NET..... 67c  
50 N 582. Similar to rule above, has inside reading markings. Wt., 1/4 lb.  
List 98c. NET..... 67c

**D** BANNER WHITE-CLAD TAPE. Accurate 50-ft. steel tape. Has highly legible jet-black figures and graduations on snow-white background. Hard, triple-bead finish is easy to clean, mar-proof. Hook ring for "walk-around" measuring. Folding flush handle opened by push pin. Vinyl-covered steel case. Shpg. wt., 1 lb.  
50 N 184. List, \$5.49. NET..... 3.67  
50 N 185. As above, 100 ft. 2 lbs. NET 5.00

**E** CENTRAL 1" PRECISION MICROMETER. High-quality, moderately priced micrometer for the critical user. Ideal for the shop or the hobbyist. Easy to read, has positive lock. Precision-ground, polished spindle and anvil. Factory pre-adjusted. Shpg. wt., 8 oz.  
50 N 060. List, \$14.00. NET..... 10.95

**F** HANSON ECONOMY 1" MICROMETER. Precision micrometer has full-range accuracy of .0005". Designed for minimum frame distortion. Employs smooth-operating, screw-type anvil to permit simplified zero adjustment. Spring-friction stop for improved accuracy. Frame, thimble and ratchet are fully chromed to inhibit rust. Factory-adjusted. Shpg. wt., 7 oz.  
46 N 249. NET..... 3.37

## DIETZGEN SLIDE RULES

**G** MODEL 1734L DECIMAL TRIG-TYPE LOG LOG. Precision-made 10" slide rule features grooves of "Teflon" for reduced friction—permits making smooth, effortless settings. Scales on one side: LL02, LL03, DF, CF, CIF, L, CI, C, D, LL3, LL2. Other side: LL01, K, A, B, T <45, T >45, ST, S, D, DI, LL1. The S, ST, and T scales are divided to read degrees and decimals of degree. With leather case and instruction booklets. Shpg. wt., 1 1/4 lb.  
24 RC 637. List, \$25.50. 1-5, EA..... 21.68  
6-Up, EACH..... 20.40

MODEL 1734. As above, with simulated leather case. Shpg. wt., 1 1/4 lbs.  
24 RC 638. List, \$22.50. 1-5, EA..... 19.13  
6-Up, EACH..... 18.00

**H** MODEL N1725L VECTOR-TYPE LOG LOG. Includes all scales found on Model 1734L above, plus Hyperbolic Sine and Tangent scales (Sh1, Sh2, Th). With genuine leather case and complete instructions. Shpg. wt., 1 1/4 lbs.  
24 RC 633. List, \$27.50. 1-5, EA..... 23.38  
6-Up, EACH..... 22.00

MODEL N1725. As above, with simulated leather case. 1 1/4 lbs.  
24 RC 639. List, \$25.50. 1-5, EA..... 20.83  
6-Up, EACH..... 19.60

**J** MODEL 1776 POCKET SLIDE RULE. Handy 5" rule. Scales on one side: DF, CF, CIF, CI, C, D, L. Other side: K, A, B, T, ST, S, D, DI. Supplied with all-leather case with pocket clip, instructions. 5 oz.  
24 RC 634. List, \$6.45. 1-5, EA..... 5.48  
6-Up, EACH..... 5.16

## ACU-MATH SLIDE RULES

**L** MODEL 1211 5" POCKET SLIDE RULE. Precision-made, easily readable pocket slide rule. Like Model 1311 above, but with fewer scales. Scales on one side: K, A, B, CI, C, D and L; S and T on other. With leather sheath and instructions. 5 oz.  
24 RC 636. List, \$3.95. NET..... 2.99

**M** MODEL 1311 PROFESSIONAL 10" SLIDE RULE. Easy-to-read, high-quality 10" slide rule. Features include: white vinyl plastic sheet face; lucite cursor; inlaid calibrations and numerals; Trig and Log Log numerals in red. Scales on one side: LL01, L, K, A, B, T, ST, S, D and LL1. Other side: LL02, LL03, DF, CIF, CI, C, D, LL3, and LL2. With sheath and instructions. 1 lb.  
24 RC 635. List, \$13.95. NET..... 9.95

## EXACT ALUMINUM "HANDYLEVEL"

**K** MODEL A-9. For the professional craftsmen and home hobbyists, 3 indicators for vertical, horizontal, and 45° use. Grooved base. 9x1 1/2x3/4", 8 oz.  
50 N 440. NET..... 1.50

## LABELING TAPES

**N** LABEL "WRITE-ON-IT" TAPE. Plastic with writing surface between layers of acetate. Resists dirt, water, oil. Sticks without moistening. Border and writing colors: \*black, red, blue. 5 oz. per 400" roll.

| Stock No. | Mfr's Type | Width | 1-11 EACH | 12-23 EACH | 24 or MORE, EACH |
|-----------|------------|-------|-----------|------------|------------------|
| 52 N 772  | 315*       | 3/4"  | 1.52      | 1.39       | 1.31             |
| 52 N 751  | 3351       | 3/4"  | 1.52      | 1.39       | 1.31             |
| 52 N 753  | 415*       | 1/2"  | 1.71      | 1.57       | 1.48             |
| 52 N 754  | 425*       | 1/2"  | 1.71      | 1.57       | 1.48             |
| 52 N 755  | 435*       | 1/2"  | 1.71      | 1.57       | 1.48             |
| 52 N 757  | 515*       | 3/4"  | 1.91      | 1.75       | 1.65             |
| 52 N 773  | 525*       | 3/4"  | 1.91      | 1.75       | 1.65             |
| 52 N 774  | 535*       | 3/4"  | 1.91      | 1.75       | 1.65             |
| 52 N 761  | 615*       | 3/4"  | 2.11      | 1.93       | 1.82             |

**P** LABEL TABLETS FOR TYPEWRITER USE. 45. 3-inch strips. White black, colors given are borders. Av. wt., 5 oz.

| Stock No. | Type | Width | Color | NET EA. |
|-----------|------|-------|-------|---------|
| 52 N 775  | 62T  | 3/4"  | Blue  | 98c     |
| 52 N 776  | 63T  | 3/4"  | Red   |         |
| 52 N 777  | 64T  | 3/4"  | Green |         |

**R** TYPE MC "LABELON" LABELS. Self-sticking Mylar-covered labels. Writing surface accepts ink, pencil, or typing. Resists rain, dirt, heat, acids. Wt., 2 oz. per box.

| Size                      | No. Per Box | Black    | Red      | Blue     |
|---------------------------|-------------|----------|----------|----------|
| 1/4x3/4"                  | 56          | 50 N 361 | 50 N 362 | 50 N 363 |
| 1/2x1 1/4"                | 100         | 50 N 364 | 50 N 365 | 50 N 366 |
| 3/4x2"                    | 66          | 50 N 367 | 50 N 368 | 50 N 369 |
| 1 1/2x2 1/2"              | 40          | 50 N 370 | 50 N 371 | 50 N 372 |
| 1-11 Boxes, PER BOX.....  |             |          |          | 1.22     |
| 12-23 Boxes, PER BOX..... |             |          |          | 1.16     |
| 24-Up Boxes, PER BOX..... |             |          |          | 1.10     |

## CHASSIS LAYOUT TOOLS

**S** MULTI-PURPOSE RULE. 4" scale, square, protractor, center finder, tap-drill table. Stainless steel. With case. 4 oz.

46 N 153. NET..... 1.34

**T** 12" COMBINATION RULE. Etched steel. Graduated in 8ths, 16ths, and 32nds. Scriber locking in head. 1 1/4 lbs.  
50 N 308. NET..... 84c

**W** DRILL & STEEL-WIRE GAUGE. Gauge screw taps, 1 to 60; decimal equiv. Lists tap and drill sizes, 1/4-28 to 2-56. 5 oz.  
46 N 060. NET..... 1.34

**X** 9" SCRIBER. Two-point machinist's scriber with knurled finger-hold. Wt., 3 oz.  
50 N 309. NET..... 44c

**Y** 6" STEEL DIVIDERS. Bow-spring and tapered fulcrum for accuracy. Replaceable points. Adjusting nut. 6 inches. 6 oz.  
46 N 089. NET..... 2.74

**Z** 6" RULE & WIRE GAUGE. Graduated in 32nds and 64ths. Has B&S wire gauge decimal equivalents. Wt., 2 oz.  
46 N 061. NET..... 44c

12" STAINLESS-STEEL BENCH RULE. (Not illus.) Has two sides graduated in 8ths, 16ths, 32nds, and 64ths. 7/4" wide. 2 oz.  
46 N 088. NET..... 75c



# G-C Assorted Hardware For Servicemen & Builders

An excellent selection of high-quality hardware for radio-TV construction and repair. Available in 35c quantities packed in handy, reliable, hinged plastic boxes or in lots of 100 and 1000. Nuts, washers and washers are nickel-plated except Fig. C (brass finish). G-C part number applies to 100 and 1000 lot, only.

**ROUND HEAD SCREWS.** For electronic repair and construction jobs. Plated steel. Shpg. wts.: 3 oz.; 14 oz.; and 5 lbs.

| Size | 35c container | Part No. | 100-Lot Pkg.  | 1000-Lot Pkg.      |
|------|---------------|----------|---------------|--------------------|
|      | No.           | Quan.    | No.           | NET                |
| 1/4" | 44 N 502      | 40       | 6005 42 N 700 | .48 44 N 742 3.79  |
| 1/4" | 44 N 503      | 35       | 6006 42 N 701 | .51 44 N 743 4.10  |
| 1/4" | 44 N 504      | 35       | 6007 42 N 702 | .60 44 N 748 4.76  |
| 1/4" | 44 N 505      | 40       | 6008 42 N 703 | .52 44 N 704 4.16  |
| 1/4" | 44 N 506      | 30       | 6009 42 N 704 | .61 44 N 712 4.83  |
| 1/4" | 44 N 507      | 30       | 6010 42 N 705 | .71 44 N 717 5.68  |
| 1/4" | 44 N 508      | 30       | 6011 42 N 706 | .82 44 N 722 6.53  |
| 1/4" | 44 N 509      | 30       | 7141 42 N 707 | .99 44 N 727 7.93  |
| 1/4" | 44 N 518      | 30       | 6013 42 N 708 | .69 44 N 739 5.43  |
| 1/4" | 44 N 519      | 25       | 6014 42 N 709 | .73 44 N 754 5.86  |
| 1/4" | 44 N 529      | 25       | 6015 42 N 710 | .79 44 N 757 6.33  |
| 1/4" | 44 N 535      | 25       | 6016 42 N 711 | .91 44 N 762 7.27  |
| 1/4" | 44 N 546      | 20       | 6017 42 N 712 | 1.03 44 N 769 8.32 |
| 1/4" | 44 N 548      | 20       | 6020 42 N 713 | .93 44 N 778 7.48  |
| 1/4" | 44 N 553      | 17       | 6021 42 N 714 | 1.10 44 N 781 8.15 |
| 1/4" | 44 N 553      | 17       | 6022 42 N 715 | 1.22 44 N 784 9.84 |

**SELF-TAPPING SCREWS.** Flat-slotted type. Plated steel. Hex head. Shpg. wts.: 4 oz.; 12 oz.; and 4 1/2 lbs.

| Size | 35c container | Part No. | 100-Lot Pkg.  | 1000-Lot Pkg.       |
|------|---------------|----------|---------------|---------------------|
|      | No.           | Quan.    | No.           | NET                 |
| 1/4" | 44 N 564      | 35       | 6090 42 N 716 | .73 44 N 804 5.88   |
| 1/4" | 44 N 565      | 30       | 6091 42 N 717 | .83 44 N 809 6.70   |
| 1/4" | 44 N 566      | 30       | 6092 42 N 718 | .90 44 N 814 7.47   |
| 1/4" | 44 N 567      | 20       | 6095 42 N 719 | 1.06 44 N 824 8.47  |
| 1/4" | 44 N 569      | 15       | 6099 42 N 720 | 1.24 44 N 834 13.67 |

**ORNAMENTAL HEAD SCREWS.** For use on panels, etc. Shpg. wts.: 13 oz.; 6 lbs.

| Size | 35c container | Part No. | 100-Lot Pkg.  | 1000-Lot Pkg.       |
|------|---------------|----------|---------------|---------------------|
|      | No.           | Quan.    | No.           | NET                 |
| 1/4" | 44 N 573      | 25       | 1097 42 N 721 | 1.25 44 N 672 10.06 |
| 1/4" | 44 N 575      | 12       | 1099 42 N 722 | 1.88 44 N 678 14.99 |

**ROUND HEAD MACHINE SCREWS.** Plated. 4 oz.; 7 oz.; 2 1/2 lbs.

| Size | 35c container | Part No. | 100-Lot Pkg.  | 1000-Lot Pkg.     |
|------|---------------|----------|---------------|-------------------|
|      | No.           | Quan.    | No.           | NET               |
| 1/4" | 44 N 576      | 35       | 7152 42 N 723 | .52 44 N 694 4.15 |
| 1/4" | 44 N 577      | 35       | 7153 42 N 724 | .55 44 N 696 4.41 |
| 1/4" | 44 N 578      | 35       | 7118 42 N 725 | .63 44 N 622 5.01 |
| 1/4" | 44 N 579      | 35       | 7119 42 N 726 | .71 44 N 624 5.64 |
| 1/4" | 44 N 580      | 35       | 7120 42 N 727 | .77 44 N 625 6.13 |

## C HOME SHOP ASSORTMENT

ly assortments of needed hardware screws, springs, solder nuts and bolts. h assortment in hinged box.



**1370. No. 9116—SOLDER LUGS.** General quantity, many sizes. 1 1/2 lbs. NET 1.06

**1371. No. 9117—SCREWS, NUTS AND WASHERS.** Various sizes. 1 1/2 lbs. NET... 1.06

**1372. No. 9118—SPRINGS.** Extension and compression types. Use with dial cords. 1 1/2 lbs. NET... 1.06

**1372. No. 9193—SHEET METAL SCREWS.** 8 sizes. From 4x1/2" to 8x1". 2 lbs. NET... 4.88

**1373. No. 9199—MACHINE SCREWS.** Assorted machine screws, matching 1 1/2 lbs. NET... 4.07

## G-C HANDY PLASTIC BOXES OF MOST-OFTEN NEEDED SERVICING HARDWARE

A selection of most-often-needed hardware in clear-plastic boxes. High-quality materials. All are assortments. \*Approx. wt., 4 oz.

| No. | Description                                           | Quant.* |
|-----|-------------------------------------------------------|---------|
| 650 | Extra small size escutcheon and wood screws           | 25      |
| 651 | Assorted wood screws with round heads                 | 25      |
| 652 | 1/4" mach. screws; round & flat heads; #6, 8, 10.     | 35      |
| 653 | No. 2 & 4 screws & nuts.                              | 35      |
| 654 | Sheet metal screws, 4x1/2"                            | 35      |
| 655 | Nickel-plated rack screws & cup washers               | 15      |
| 656 | Sheet metal screws, ass.—4, 6, 8, 10, Hex, & slotted. | 25      |
| 657 | Assorted phono needle set screws                      | 12      |
| 658 | Spade bolts; #6, 8 holes.                             | 15      |
| 659 | Assorted set screws—6-32, 8-32, 10-32.                | 15      |
| 660 | Timmerman speed nuts.                                 | 30      |

| No. | Description                                      | Quant.* |
|-----|--------------------------------------------------|---------|
| 659 | Assorted internal lockwashers                    | 50      |
| 660 | Assd. hex nuts.                                  | 30      |
| 661 | Hex & ring mounting nuts. For controls switches. | 12      |
| 662 | Assd. extruded fibre washers.                    | 30      |
| 663 | Assorted flat fiber washers. Nos. 6 to 1 1/2".   | 30      |
| 664 | Assorted metal washers. Nos. 4 to 1 1/2".        | 80      |
| 665 | Rings & C-washers for 1/4" shafts.               | 25      |
| 666 | Snap-hole plugs—1/4", 1 1/2".                    | 55      |
| 667 | Assorted ventilating hole plugs.                 | 4       |
| 668 | Assorted rivets.                                 | 55      |
| 669 | Solder lugs—16-10.                               | 30      |
| 670 | Metals. For #6 & 8 screws.                       | 12      |

| No. | Description                                  | Quant.* |
|-----|----------------------------------------------|---------|
| 670 | Insulated spacers for #6 & 8 screws.         | 12      |
| 671 | Assorted hairpin cotter pins.                | 50      |
| 672 | Cable clamps, 1/4 to 3/4".                   | 15      |
| 673 | Large compression springs.                   | 10      |
| 674 | Small compression springs.                   | 20      |
| 675 | Regular dial drive springs.                  | 8       |
| 676 | Small dial drive springs.                    | 10      |
| 677 | Radio knob springs.                          | 18      |
| 678 | Rubber feet with wood screws.                | 8       |
| 679 | Cord strain relief for POSJ type wire.       | 5       |
| 680 | Rubber chassis mounts.                       | 12      |
| 681 | Rubber grommets. For cables, metals to 1/4". | 15      |
| 682 | Standard thin dial cord.                     | 10      |
| 683 | Assd. radio knob screws.                     | 15      |



**E HEX NUTS.** Plated steel. Shpg. wts.: 4 oz.; 8 oz.; 3 lbs.

| Size       | 35c container | Part No. | 100-Lot Pkg.  | 1000-Lot Pkg.     |
|------------|---------------|----------|---------------|-------------------|
|            | No.           | Quan.    | No.           | NET               |
| 4-36x1/4"  | 44 N 584      | 30       | 6041 42 N 728 | .65 44 N 907 5.18 |
| 6-32x1/4"  | 44 N 579      | 30       | 7230 42 N 729 | .72 44 N 911 5.70 |
| 8-32x1/4"  | 44 N 585      | 30       | 7233 42 N 730 | .72 44 N 916 5.73 |
| 10-32x1/4" | 44 N 586      | 30       | 6042 42 N 731 | .95 44 N 919 7.53 |
| 6-32x1/2"  | 44 N 586      | 30       | 6042 42 N 732 | .67 44 N 953 5.41 |
| 8-32x1/2"  | 44 N 587      | 30       | 6043 42 N 733 | .72 44 N 954 5.73 |

**F SPLIT LOCKWASHERS.** Tempered steel. Wts.: 2 oz.; 4 oz.; 2 lbs.

| Size      | 35c container | Part No. | 100-Lot Pkg.  | 1000-Lot Pkg.     |
|-----------|---------------|----------|---------------|-------------------|
|           | No.           | Quan.    | No.           | NET               |
| # 4 screw | 44 N 197      | 60       | 6503 42 N 797 | .56 44 N 199 4.41 |
| # 6 screw | 44 N 388      | 65       | 6504 42 N 734 | .47 44 N 663 3.82 |
| # 8 screw | 44 N 589      | 55       | 6505 42 N 735 | .46 44 N 666 3.62 |
| #10 screw | 44 N 196      | 60       | 6506 42 N 796 | .52 44 N 198 4.23 |

**G INTERNAL STAR LOCKWASHERS.** Shpg. wts.: 2 oz.; 4 oz.; 1 1/2 lbs.

| Size      | 35c container | Part No. | 100-Lot Pkg.  | 1000-Lot Pkg.     |
|-----------|---------------|----------|---------------|-------------------|
|           | No.           | Quan.    | No.           | NET               |
| # 4 screw | 44 N 187      | 50       | 7324 42 N 798 | .45 44 N 188 3.56 |
| # 6 screw | 44 N 597      | 50       | 7326 42 N 736 | .45 44 N 924 3.56 |
| # 8 screw | 44 N 598      | 50       | 7328 42 N 737 | .49 44 N 929 3.90 |
| #10 screw | 44 N 599      | 45       | 7330 42 N 738 | .49 44 N 934 3.90 |

**H EXTRUDED FIBER WASHERS.** Fiber washers in choice of 4 sizes. Overall thickness 1/16". Av. shpg. wts.: 3 oz.; 14 oz.; and 5 lbs.

| No.    | 42 N 771 <th>35</th> <th>6525 42 N 739<th>.84 44 N 772 6.76</th></th> | 35 | 6525 42 N 739 <th>.84 44 N 772 6.76</th> | .84 44 N 772 6.76 |
|--------|-----------------------------------------------------------------------|----|------------------------------------------|-------------------|
| No. 8  | 42 N 772 <th>35</th> <th>6526 42 N 740<th>.84 44 N 774 6.76</th></th> | 35 | 6526 42 N 740 <th>.84 44 N 774 6.76</th> | .84 44 N 774 6.76 |
| No. 10 | 42 N 775 <th>35</th> <th>6527 42 N 741<th>.92 44 N 776 7.39</th></th> | 35 | 6527 42 N 741 <th>.92 44 N 776 7.39</th> | .92 44 N 776 7.39 |
| 1/4"   | 42 N 777 <th>35</th> <th>6528 42 N 742<th>.92 44 N 778 7.39</th></th> | 35 | 6528 42 N 742 <th>.92 44 N 778 7.39</th> | .92 44 N 778 7.39 |

**J CUP FINISHING WASHERS.** Nickel-plated. Wts.: 3 oz.; 14 oz.; 5 lbs.

| No.    | 42 N 779 <th>45</th> <th>6161 42 N 743<th>.39 44 N 780 3.13</th></th> | 45 | 6161 42 N 743 <th>.39 44 N 780 3.13</th> | .39 44 N 780 3.13 |
|--------|-----------------------------------------------------------------------|----|------------------------------------------|-------------------|
| No. 8  | 42 N 781 <th>45</th> <th>6162 42 N 744<th>.41 44 N 782 3.31</th></th> | 45 | 6162 42 N 744 <th>.41 44 N 782 3.31</th> | .41 44 N 782 3.31 |
| No. 10 | 42 N 783 <th>35</th> <th>6163 42 N 745<th>.54 44 N 784 4.37</th></th> | 35 | 6163 42 N 745 <th>.54 44 N 784 4.37</th> | .54 44 N 784 4.37 |

**SOLDER LUGS.** Sturdy, tinned solder lug units. Easily accommodate the screw wires shown below; No. 8 holes also take No. 6 screws. \*Part no. for 100, and 1000 lot pkgs. only. Shpg. wts.: 2 oz.; 4 oz.; 1 lb.

| Size        | 35c container | Part No. | 100-Lot Pkg.   | 1000-Lot Pkg.       |
|-------------|---------------|----------|----------------|---------------------|
|             | No.           | Quan.    | No.            | NET                 |
| # 8 Fig. K  | 44 N 603      | 25       | 7442 42 N 746  | 1.12 44 N 637 8.93  |
| # 10 Fig. L | 44 N 604      | 25       | 7445 42 N 747  | 1.17 44 N 638 9.17  |
| #10 Fig. M  | 44 N 605      | 25       | 1021A 42 N 748 | 1.11 44 N 643 8.94  |
| # 8 Fig. N  | 44 N 607      | 25       | 7455 42 N 749  | 1.81 44 N 646 14.55 |
| # 8 Fig. P  | 44 N 608      | 30       | 7451 42 N 750  | .85 44 N 649 6.85   |

**R RUBBER GROMMETS.** Soft, black stock. Sizes shown are mtg. hole required and inner diam., respectively. Wts.: 2 oz.; 8 oz.; 4 lbs.

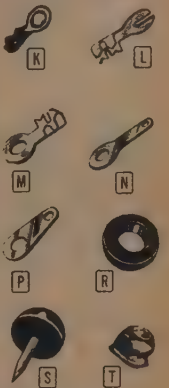
| Size            | 35c container | Part No. | 100-Lot Pkg.    | 1000-Lot Pkg.       |
|-----------------|---------------|----------|-----------------|---------------------|
|                 | No.           | Quan.    | No.             | NET                 |
| 1/4" x 1/4"     | 44 N 618      | 16       | 1041-2 42 N 751 | 1.10 44 N 437 8.75  |
| 3/8" x 3/8"     | 44 N 619      | 14       | 1042 42 N 752   | 1.23 44 N 440 9.88  |
| 1/2" x 1/2"     | 44 N 620      | 12       | 1043 42 N 753   | 1.66 44 N 443 13.23 |
| 3/4" x 3/4"     | 44 N 627      | 10       | 1043 42 N 754   | 1.86 44 N 446 14.85 |
| 1" x 1"         | 44 N 628      | 8        | 1043-1 42 N 755 | 2.81 44 N 449 25.87 |
| 1 1/4" x 1 1/4" | 42 N 785      | 10       | 5711 42 N 756   | 3.46 44 N 787 27.69 |
| 1 1/2" x 1 1/2" | 42 N 787      | 7        | 7569 42 N 757   | 5.63 44 N 788 45.02 |

**S RUBBER TACK BUMPERS.** Tacks molded-in. For wooden cabinets, etc. Shpg. wts.: 2 oz.; 8 oz.; 4 lbs.

| Size      | 35c container | Part No. | 100-Lot Pkg.  | 1000-Lot Pkg.       |
|-----------|---------------|----------|---------------|---------------------|
|           | No.           | Quan.    | No.           | NET                 |
| 1/2" O.D. | 44 N 774      | 10       | 1075 42 N 758 | 1.81 44 N 164 14.49 |

**T RUBBER FEET.** Take screws, nails, etc. For wood or metal cabinets. Shpg. wts.: 3 oz.; 9 oz.; 4 1/2 lbs.

| Size      | 35c container | Part No. | 100-Lot Pkg.   | 1000-Lot Pkg.       |
|-----------|---------------|----------|----------------|---------------------|
|           | No.           | Quan.    | No.            | NET                 |
| 1/2" O.D. | 44 N 764      | 8        | 1075B 42 N 764 | .89 44 N 155 7.15   |
| 3/4" O.D. | 44 N 766      | 8        | 1075F 42 N 765 | 2.18 44 N 158 17.35 |



# "Tapewriter", Electrical Hardware

## M-2 DYMO MITE

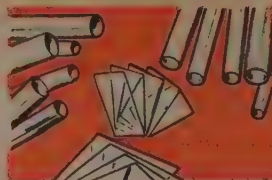


**Ingenious Low-Cost Tool  
For Embossing Plastic Tape**

ONLY **\$34.95**  
no money down  
MODEL M-2. Lightweight tool for making embossed labels on plastic tape. Produces white letters on clear or colored background. Just spell out message on dial, squeeze handle for each letter. Pull forward and reverse latching. 10" long, 3 lbs.  
**78 N 091. No Money Down. NET. 34.95**

**PLASTIC EMBOSING TAPES.** Adhesive. In 12-ft. rolls, 1/2" wide. Wt., 5 oz.

| Stock No. | Type   | Color | EACH |
|-----------|--------|-------|------|
| 78 N 092  | 158-E  | Blue  | 1.65 |
| 78 N 093  | 158-G  | Green |      |
| 78 N 094  | 158-R  | Red   |      |
| 78 N 095  | 158-BR | Brown |      |
| 78 N 096  | 158-BK | Black |      |
| 78 N 097  | 158-C  | Clear |      |



## POLYSTYRENE SHEETS, RODS AND TUBING

For AC, DC and RF use including VHF, UHF and SHF. Rods and tubing make good insulators or coil forms. Sheets are ideal for shielding or dial and gauge glass. Excellent arc resistance. No Moisture absorption, stretching or warpage. May be sawed, drilled or tapped. Tubing has satin finish except "clear" rods are frosted except "clear".

### 12" POLYSTYRENE RODS

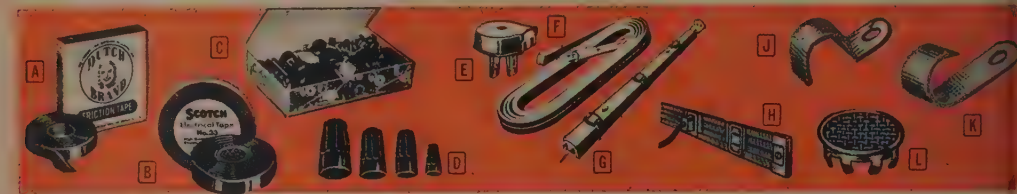
| Stock No. | Dia.   | Shpg. Wt. | NET EACH |      |
|-----------|--------|-----------|----------|------|
|           |        |           | 1-9      | 10-U |
| 71 H 875  | 1/4"   | 2 oz.     | .03      | .02  |
| 71 H 876  | 3/8"   | 3 oz.     | .07      | .06  |
| 71 H 877  | 1/2"   | 5 oz.     | .12      | .11  |
| 71 H 878  | 5/8"   | 6 oz.     | .18      | .16  |
| 71 H 879  | 3/4"   | 6 oz.     | .25      | .22  |
| 71 H 880  | 1"     | 6 oz.     | .47      | .42  |
| 71 H 881  | 1 1/4" | 7 oz.     | .71      | .64  |
| 71 H 882  | 1 1/2" | 8 oz.     | .98      | .88  |
| 71 H 883  | 1 3/4" | 8 oz.     | 1.39     | 1.25 |
| 71 H 884  | 2"     | 8 oz.     | 1.86     | 1.67 |

### POLYSTYRENE SHEETS

| Stock No. | Size   | Thickness | Shpg. Wt.  | NET EACH |       |
|-----------|--------|-----------|------------|----------|-------|
|           |        |           |            | 1-9      | 10    |
| 71 H 865  | 12x12" | 1/8"      | 8 oz.      | 4.07     | 3.66  |
| 71 H 866  | 12x12" | 3/16"     | 10 oz.     | 4.70     | 4.23  |
| 71 H 867  | 12x12" | 1/4"      | 12 oz.     | 5.39     | 4.88  |
| 71 H 868  | 12x12" | 3/8"      | 1 lb.      | 7.01     | 6.33  |
| 71 H 869  | 12x12" | 1/2"      | 1 1/2 lbs. | 7.99     | 7.19  |
| 71 HX 870 | 12x24" | 1/8"      | 1 lb.      | 7.64     | 6.88  |
| 71 HX 871 | 12x24" | 3/16"     | 1 1/4 lbs. | 8.97     | 8.03  |
| 71 HX 872 | 12x24" | 1/4"      | 1 1/2 lbs. | 10.39    | 9.33  |
| 71 HX 873 | 12x24" | 3/8"      | 2 lbs.     | 12.89    | 11.60 |
| 71 HX 874 | 12x24" | 1/2"      | 3 lbs.     | 15.34    | 13.81 |

### TUBING

| Stock No. | O. D. | I. D. | Wt.   | 1-9, EA. | 10-Up, EA. | Stock No. | O. D.  | I. D. | Wt.   | 1-9, EA. | 10-Up, EA. |
|-----------|-------|-------|-------|----------|------------|-----------|--------|-------|-------|----------|------------|
| 71 H 885  | 1/4"  | 1/8"  | 2 oz. | 10¢      | 9¢         | 71 H 889  | 3/4"   | 1/2"  | 4 oz. | 31¢      | 28¢        |
| 71 H 886  | 3/8"  | 1/4"  | 3 oz. | 14¢      | 13¢        | 71 H 890  | 1"     | 3/4"  | 4 oz. | 39¢      | 35¢        |
| 71 H 887  | 1/2"  | 3/8"  | 3 oz. | 18¢      | 16¢        | 71 H 891  | 1 1/4" | 1"    | 6 oz. | 55¢      | 49¢        |
| 71 H 888  | 3/4"  | 1/2"  | 3 oz. | 25¢      | 22¢        |           |        |       |       |          |            |



## DUTCH BRAND TAPE

**A** **FRICITION TAPE.** Tough, long-wearing fabric base—resists the effects of abrasion and weathering. Makes tight insulated wrappings. 7 oz.

| Stock<br>No. | Size     | NET PER ROLL |       |        |
|--------------|----------|--------------|-------|--------|
|              |          | 1-29         | 30-99 | 100-Up |
| 52 N 610     | 3/4"x13' | 14¢          | 13¢   | 12¢    |
| 52 N 611     | 3/4"x32' | 22¢          | 21¢   | 20¢    |
| 52 N 612     | 3/4"x68' | 42¢          | 40¢   | 38¢    |
| 52 N 620     | 3/4"x60' | 21¢          | 20¢   | 19¢    |

**PLASTIC TAPE.** Strong, black vinyl plastic electrical tape. Stretches and conforms to irregular surfaces. Clings tightly—forms compact insulated wrappings which do not unravel. High-dielectric strength and excellent adhesive. 3/4" type is .007". Rated 7000 v. 1/2" type is .010". Rated 10,000 v. 6 oz.

**52 N 614.** 3/4"x44". NET PER ROLL...1.00  
15-49, EACH... .90 c 50-Up, EACH... .80 c  
**52 N 623.** 1/2"x108". NET PER ROLL...1.84  
6-47, EACH...1.69 48-Up, EACH...1.53

## SCOTCH PLASTIC-BACKED TAPE

**B** **TYPE 33.** Tough .007" thick plastic-backed tape with 10,000 v. dielectric strength. Molds easily to irregular surfaces for neat compact, insulated wrappings which cling tightly and do not unravel. Resistant to chemicals, abrasion, oil, weather, salt water. Shpg. wt., 6 oz.

| Stock No. | Size     | Per Roll | 12-Up Per Roll |
|-----------|----------|----------|----------------|
| 52 N 613  | 3/4"x20' | .54      | .49            |
| 52 N 616  | 3/4"x60' | 1.47     | 1.32           |

**TYPE 88.** Pliable .0085" thick plastic-backed tape for easy application at normal and low (0° F.) temps. Makes splice wrapping easy in cold weather. Backing is flame-retardant; resists abrasion, acids, weather. Rated 1100 v./mil. 3/4"x66". Shpg. wt., 6 oz.

**52 N 700.** 1-11, NET PER ROLL...1.75  
12-Up, PER ROLL...1.58

## BARGAIN HARDWARE KIT

**C** Low-cost assortment of rivets, grommets, nuts, screws, washers, right angle brackets, self-tapping screws, eyelets, etc. Includes nickel and cadmium-plated, and solid aluminum pieces. 1 1/4 lbs.  
**44 N 315. NET...97 c**

## WIRE CONNECTORS

**D** Solderless. Strip two wire ends, push into connector, screw cap down. No tools needed. Phenolic. U.L. Approved. Wts.: Pkg. of 25, 5 oz.; Pkg. of 100, 1 1/4 lbs.

| Wire Size | Stock No. | Pkg. of 25 | Stock No. | Pkg. of 100 |
|-----------|-----------|------------|-----------|-------------|
| 16-18     | 52 N 874  | .24        | 52 N 870  | .73         |
| 14-18     | 52 N 875  | .39        | 52 N 871  | 1.06        |
| 12-18     | 52 N 876  | .46        | 52 N 872  | 1.28        |
| 10-18     | 52 N 877  | .89        | 52 N 873  | 2.41        |

## "SNAP-IT" INTER-LINK ELECTRIC OUTLET KITS

Easy way to add extra AC outlets. Plug swivel cap (Fig. E) into present outlet—plug flexible link (Fig. F) into swivel cap—then plug outlet link (Fig. G) into flexible link. Follow wall contour, fasten with nails. 15 amps. U.L. Approved.

**1162—6-FT. KIT.** Includes swivel cap, 5-ft. flex. link, 3-outlet link, 1 1/4 lbs.  
**50 N 450. NET...2.45**

**1163—12-FT. KIT.** Includes swivel cap, 11-ft. flex. link, 3-outlet link, 2 1/2 lbs.  
**50 N 451. NET...3.92**

**G** **3-OUTLET LINK.** Shpg. wt., 1 lb.  
**50 N 452. NET...81 c**

## ACCESSORIES FOR EXTENSION USE

| Stock No. | Type | Description                  | Lbs.  | NET  |
|-----------|------|------------------------------|-------|------|
| 50 N 453  | 161  | Inter-Link Link              | 1/4   | .73  |
| 50 N 454  | 164  | Inter-Link Swiv. Cap Plug-in | 1/4   | .41  |
| 50 N 455  | 183  | Inter-Link 3' Flex. Link     | 3/4   | .73  |
| 50 N 456  | 185  | Inter-Link 3' Flex. Link     | 3/4   | 1.22 |
| 50 N 457  | 191  | Inter-Link 11' Flex. Link    | 1 1/4 | 2.69 |

## ELECTROSTRIP FLEXIBLE OUTLET KIT

**H** Unique 4-ft. electrical strip for easy installation on baseboard, wall, window bench, etc. 3 outlets may be moved to any point along strip. Has 12" cord with plug for feeding power from regular wall outlet to strip. 15 amps at 125 v. AC. Shpg. wt. 1 1/2 lbs.  
**52 NX 696. NET...2.62**

**EXTRA OUTLETS.** For above, 3 oz.  
**52 N 697. NET EACH...37 c**

## CINCH-JONES RADIO HARDWARE CABLE CLAMPS

Designed for use with cables up to 3/4" diameter. 1 1/2"x2 1/2"; 1 1/2"x2 1/2". \*Center 85B is Fig. J; 85D is Fig. K. 2 oz.

| Stock No. | Mfr's Type | Dia. of Arc | Hole* to Arc* | NET EACH |       |
|-----------|------------|-------------|---------------|----------|-------|
|           |            |             |               | 1-49     | 50-99 |
| 51 N 350  | 85A        | 1/4"        | 1/4"          | .02      | .00   |
| 51 N 351  | 85B†       | 3/8"        | 3/8"          | .01      | .00   |
| 51 N 352  | 85C‡       | 1/2"        | 1/2"          | .01      | .00   |
| 51 N 353  | 85D        | 3/4"        | 3/4"          | .01      | .00   |
| 51 N 354  | 85E        | 1"          | 1"            | .01      | .00   |
| 51 N 355  | 85F        | 1 1/4"      | 1 1/4"        | .01      | .00   |

## PLUG BUTTONS

**I** A selection of screen-type plugs for filling unused holes in metal, wood, fibre, etc. Also provided ventilation wherever required. Spring tension prongs hold nickel-plated steel plug buttons firmly in position. \*Screen type top, zinc-plated steel button. Av. shpg. wt., 2 oz.

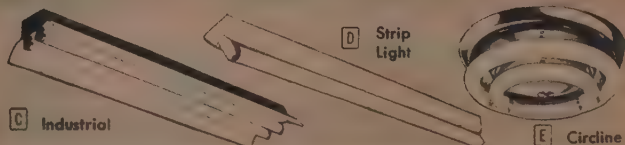
| Stoek<br>No. | Mfr's<br>Type | For Hole<br>Dia. | NET EACH |     |
|--------------|---------------|------------------|----------|-----|
|              |               |                  | 1-49     | 50  |
| 51 N 356     | 41A           | 1/4"             | .02      | .01 |
| 51 N 357     | 41B           | 3/8"             | .02      | .01 |
| 51 N 358     | 41C           | 1/2"             | .02      | .01 |
| 51 N 359     | 41D           | 3/4"             | .02      | .01 |
| 51 N 360     | 41E           | 1"               | .02      | .01 |
| 51 N 361     | 41F           | 1 1/4"           | .03      | .01 |
| 51 N 362     | 41G           | 1 1/2"           | .04      | .01 |
| 51 N 363     | 41H           | 1 3/4"           | .06      | .03 |
| 51 N 364     | 41V*          | 1"               | .12      | .06 |



# Fluorescent Fixtures—Lanterns—Drop Lights—Flashlights



## MITCHELL FLUORESCENT FIXTURES



### RAPID-START INDUSTRIAL FIXTURE

**C** MODEL 2098RS. Uses two 48" Type T-12, 40-watt lamps. High-gloss gray enamel for maximum light reflection. Power factor corrected to reduce inductive effects. Knock-outs permit flush or stem mounting. May be hung on chains. Flush-mounted separately, or mounted end-to-end. 48½x11½x5½". With reflector and ballasts. Less lamps, chains. U.L. Approved. For 110-125 v., 60 cycle AC. Shpg. wt., 17 lbs.

91 NU 315. NET EACH.....11.18  
3 or More, EACH.....10.32

### STANDARD INDUSTRIAL FIXTURE

**D** MODEL 2098. Above, but std. starter (supplied). Less lamps, chains.

91 NU 260. NET EACH.....9.43  
3 or More, EACH.....8.70

91 NU 187. MODEL 949. As above, but uses 75-w. 96" lamps. 35 lbs.

NET EACH.....19.10  
3 or More, EACH.....17.45

### CIRCLINE FLUORESCENT FIXTURES

**E** MODEL 665C. Low-cost, single-lamp, chrome-plated fixture with "instant-start" feature. Provides clear, glassless illumination—equivalent to a 100-watt incandescent bulb. Handsome chrome finish. With 12" diameter, 32-watt Circline lamp. U.L. Approved. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 9 lbs.

91 NX 279. 3-Up, EA. 8.06 1-2, EA. 8.95

MODEL 841C. Chrome-plated 2-lamp fixture. Improved light diffusion. With 12" dia. 32-watt and 8" dia. 22-watt rapid-start lamps, hardware and glass pendant. For 110-120 v., 60 cycle AC. U.L. Approved. 11 lbs.

91 NX 262. 3-Up, EA. 12.47 1-2, EA. 13.85

MODEL 847C. Deluxe model with 3 self-starting lamps. Chrome plated. With 40, 32, 22-watt lamps. For 110-120 v., 60 cycle AC. U.L. Approved. 15 lbs.

91 NX 241. 3-Up, EA. 20.76 1-2, EA. 23.06

## ORDONATIC DROP-LIGHT REELS

**LOW-COST MODEL 500.** Self-winding drop-light ideal for use around the home, rides light where and when you want it. Has convenient electric outlet built into dle for power tools. 20-ft. cord pulls out any length, locks, then retracts automatically when no longer needed. Swing-a-guard, reflector and case are all-steel. Versal bracket for wall or ceiling mtg. bulb. U.L. Approved. 4¾ lbs.

NX 300. NET.....8.77

## INDUSTRIAL EXTENSION CORD REELS

Heavy-duty, combination light and er outlets for maintenance, loading ts, service stations, etc. Provide portable s, and power wherever needed; eliminate led wire. Have No. 18, 2-conductor er-covered cord with tough, neoprene lation. Rated 7 amps. Cord pulls out othly to any desired length and locks in e-slight pull unlatches cord; cord re- ts automatically. Steel housing has versal mtg. bracket. Supplied with hard- e for either ceiling or wall mtg. Steel g-open lamp guard has hanger hook chrome reflector. Pistol-grip, crack- e handle has convenient built-in electric et and toggle switch. Less bulb. U.L. roved.

| Stock No. | Mfr's Type | Cord Length | Wt., Lbs. | NET EACH |
|-----------|------------|-------------|-----------|----------|
| 91 X 976  | 700        | 20-Ft.      | 7         | 14.95    |
| 91 X 977  | 800        | 30-Ft.      | 8         | 18.95    |
| 91 X 978  | 900        | 40-Ft.      | 9         | 22.95    |

## FLUORESCENT STRIP-LIGHT FIXTURES

Smoothly designed for both beauty and simplified installation. Tapered lines and rounded corners not only look good, but give efficient lighting. Finished in handsome white, baked enamel for maximum light intensity and easy washing. Can be installed on walls or ceilings. Flush or suspension mounted, singly or in continuous rows. Types 4002, 4004 are normal power factor; 4031 has high power factor; 9308 and 9328 are Slimline-type units. All require 1 lamp.

except 265 and 9328 which require 2 lamps. \*Equipped with starters. For 110-120 v., 60 cycle AC. U.L. Approved.

| Stock No. | Mfr's Type | Watts | Lgth., Ft. | Wt., Lbs. | NET EACH |       |
|-----------|------------|-------|------------|-----------|----------|-------|
|           |            |       |            |           | Single   | 3-Up  |
| 91 NX 177 | 4002*      | 20    | 24"        | 4         | 2.76     | 2.54  |
| 91 NX 178 | 4004*      | 40    | 48"        | 6         | 4.59     | 4.24  |
| 91 NX 179 | 4031*      | 40    | 48"        | 4         | 1.81     | 1.23  |
| 91 NX 188 | 9308       | 75    | 96"        | 30        | 15.00    | 13.70 |
| 91 NX 189 | 9328       | 75    | 96"        | 30        | 15.00    | 13.70 |

## BURGESS QUALITY LANTERNS AND FLASHLIGHTS



**MODEL TW6E.** Emergency floodlight. Plug this unit into any 110-v. outlet; when AC power fails, it automatically switches on a powerful light that diffuses over a wide area. Battery life: 15 hours. Continuous. With mtg. bracket, 6' cord, 1 6-v. batt. Shpg. wt., 6½ lbs.

91 J 219. List, \$20.25. NET.....13.48

**J 217. MODEL TW4E.** Above, with long-range, spot beam. List, \$20.25. NET. 13.48

**MODEL 159. "Magnet Light."** Sturdy, chrome-plated. Has Alnico permanent magnet. Red "brite-glo" head. Uses 2 No. 2. With lamp; less batteries. 1 lb.

91 J 107. List, \$1.79. NET.....1.20

**MODEL 350. Two-Cell Flashlight.** Fiber barrel with rubber cushioned head, end. Pre-fused; weatherproof. Uses No. 2. With lamp. Less batteries. 1 lb.

91 J 229. List, \$1.90. NET.....1.28

**DEL 450.** As above, but uses 3 No. 2 cells for 3 lamp. Less batteries. 1¼ lbs.

91 J 235. List, \$2.15. NET.....1.44

**MODEL 152.** Penlight. Uses 2 No. 7 cells. With bulb. Less batt. 5 oz.

91 J 245. List, 88c. NET.....59c

**K** MODEL TW7. "Radar-Lamp." Portable lantern with super-intensity lamp. Leak-proof and weatherproof. Battery replaces in seconds—2 nuts hold battery firmly to head assembly. 9¼x5¼x2¾" (including battery). With TW1 6-v. battery. 4½ lbs.

80 J 686. List, \$9.25. NET.....5.73

**MODEL TW34.** Red flasher light head assembly for "Radar Lamp" above—attaches to top of battery. 4x2¼x5¼". 1 lb.

80 J 687. List, \$3.95. NET.....2.53

**D** MODEL TW3. "Radar-Lite." Powerful all-purpose unit. Automatic red flasher adjusts 90°. Sealed beam lamp has 4¾" dia. Chrome handle. 1¼x9¼x3¼". With TW1 6-v. battery. Shpg. wt., 6 lbs.

78 J 270. List, \$12.70. NET.....7.83

**78 J 228. MODEL TW4.** As above, but less flasher. 6 lbs. List, \$10.25. NET.....6.33

**79 J 780. MODEL TW12.** Above, but with TW12 12-v. batt. List, \$10.95. NET.....6.75

**TW1 6-V. BATTERY.** For TW3, TW34, TW4, TW4E, TW6E, TW7. Shpg. wt., 3½ lbs.

80 J 680. List, \$2.75. NET.....1.83

**TW2 12-V. BATTERY.** For TW12. 3½ lbs.

79 J 753. List, \$2.75. NET.....1.83

**M** MODEL JR-1. "Radar-Mate." A rugged, powerful portable light for the discerning user. Ideal for the outdoor enthusiast or the homeowner; for motorists, repairmen, campers, youngsters. Heavy-gauge steel construction, corrosion-resistant design, plus a life-time switch, assure years of trouble-free service. The adjustable head has a special multi-facet vaporized reflector, providing a long beam with peak light distribution. The Radar-Mate reloads easily—a simple slide motion removes the entire light head from battery. Separated head and battery container design banishes corrosion. Weatherproof switch has silver contact points. Head moves 135° up and down. Gleaming chrome plate case. Requires three No. 2 batteries (below). Shpg. wt., 1¼ lbs.

81 J 057. List, \$4.98. NET.....3.32

**NO. 2 BATTERY.** For JR-1 above. 6 oz.

53 J 009. NET EACH.....1.4c

**CL12 STORAGE BRACKET.** Bracket with spring clips firmly grips all Radar-Line lanterns using TW1 batteries. Holds unit on floor or wall of truck or car, yet keeps it readily available without unsnapping or tying down. Shpg. wt., 1 lb.

80 J 688. List, \$1.50. NET.....1.17

# Adjustable Lamps and Accessories



## FLEXO LAMPS

**A** MODEL 4303 ALL PURPOSE LAMP. Well-designed, all-purpose lamp. Head tilts 180° and turns 300°. Upper elbow swings 160°; lower elbow swings 110°. Extends to 36". Spring-controlled swivel joints. Push button switch. Easily installed. Clamp base is removable for surface screw mounting. Bronze finish. Requires two T8, 15-watt fluorescent lamps. For 105-125 v., 60 cycle AC. U.L. Approved. Less lamps (below). Shpg. wt., 10 lbs.  
**91 NX 225. List, \$20.95. NET EACH... 15.40**  
**3 or More, EACH... 14.38**

**B** MODEL 5600 "COOL-SHADE" LAMP. Adjusts to any position. Spring-controlled swivels. Extends to 42". On-off switch. Shade dia., 5 1/4", 7" deep. Clamp or screw mtg. base. Less bulb. Gray finish. For 110-120 v., 60 cycle AC. U.L. Approved. 3 1/2 lbs.  
**91 NX 142. List, \$11.95. NET EACH... 8.77**  
**3 or more, EACH... 8.20**

**C** MODEL 4444 "FLEXARM" TWIN-LIGHT. Two-light, fluorescent lamp. Flexible arm permits shade adjustment to any height 18" to 14". Sturdy, non-magnetic metal base. Heavy-gauge steel shade 2 1/2 x 4 1/2 x 18". Washable, white-enameled reflector. Push-button on/off switch. Rubber bumpers on base. Requires two T8, 15-watt fluorescent lamps. Less lamps (see below, left). Bronze finish. U.L. Approved. For 105-125 v., 60 cycle AC. 10 lbs.  
**91 NX 146. List, \$14.95. NET EACH... 10.95**  
**3 or More, EACH... 10.23**

**D** MODEL 4324 PORTABLE DESK LAMP. Similar to Model 4303 but with weighted, bronzed base. Double arm extends to 32". Base has pencil grooves. U.L. Approved. For 105-125 v., 60 cycle AC. Uses two T8, 15 watt lamps (below). Less lamps. Wt., 23 lbs.  
**91 NU 226. List \$28.95, NET EACH... 21.28**  
**3 or More, EACH... 19.86**



## LUXO CLAMP-ON LAMPS

**E** MODEL L-1A ALL-ANGLE LAMP. Features precision construction, exceptional flexibility and glare-free illumination. Has two extension arms 45" long and a 360° sweep. Swivel joints spring-loaded; knurled nut controls tension. Vented shade has on-off switch. With screw clamp. Gray finish. U.L. Approved. For 110-120 v., 60 cycle AC. 6.62 60-watt bulb. Wt., 5 lbs.  
**91 NX 296. List, \$23.50. NET EACH... 17.62**  
**3 or More, EACH... 15.88**

**F** MODEL FL-1A ALL-ANGLE FLUORESCENT LAMP. Features "feather-touch" positioning—raise, lower, or turn with finger tip. Spring loaded extension arms always stay in position. Adjustable lamp housing. Shade 19x4 1/4". Has push button starter. Has clamp for desk, bench, or table mounting. Extends to 45". Dove gray finish. U.L. Approved. For 110-120 VAC. Less lamps (uses two T8 lamps below). 9 lbs.  
**91 NX 228. List, \$29.50. NET EACH... 22.12**  
**3 or More, EACH... 20.01**

**G** MODEL LFM-1A MAGNIFIER. Combines cool fluorescent lighting, large magnification, and maneuverability. Large, 5" lens gives excellent, distortion-free view. Spring-balanced action. Extension arms reach 45", sweep 360°. Universal clamp for desk or bench mounting. Gray finish. For operation from 110-120 v., 60 cycle AC. U.L. Approved. Uses T9 Circline lamp (below). Less Lamp. Shpg. wt., 8 lbs.  
**91NX201. List, \$44.50. NET EACH... 33.38**  
**3 or More, EACH... 30.28**

**H** MODEL LC-1A COMBINATION LAMP. Ideal for people working with color, this 3-way lamp combines incandescent and fluorescent light in one fixture. Either lamp can be used individually or in combination. Extension reach 45", sweep 360°. Clamp for table, desk, etc. Dove gray finish. U.L. Approved. For 110-120 v., 60 cycle AC. Uses 60-watt bulb and Circline T9 fluorescent tube (less bulb and tube). 9 lbs.  
**91 NU 229. List, \$29.50. NET EACH... 22.12**  
**3 or More, EACH... 20.01**



## STARTERS AND SOCKETS

**J** STARTERS. Fit all standard fixture.  
 \*Circline, †Circline, U.L. 3 oz.

| Stock No. | Mfr's Type | Watts                 | 1-9 EACH | 10-UP EACH |
|-----------|------------|-----------------------|----------|------------|
| 78 N 850  | FS2        | 14, 15, 20            | 20¢      | 18¢        |
| 78 N 851  | FS4        | 30 or 40              | 20¢      | 18¢        |
| 78 N 854  | FS12       | 32"                   | 28¢      | 25¢        |
| 78 N 855  | FS22       | 14, 15, 18"<br>20-22" | 28¢      | 25¢        |

**K** LAMPHOLDER SOCKETS. High quality. For all standard lamps. Shpg. wt., 3 oz.

| Stock No. | Watts      | Color | 1-9 EACH | 10-UP EACH |
|-----------|------------|-------|----------|------------|
| 78 N 860  | 14, 15, 20 | Black | 38¢      | 34¢        |
| 78 N 861  | 30 or 40   | White | 40¢      | 36¢        |

**L** STARTER SOCKET. Standard Dual-Lamp remote starter socket. 3 oz.  
**78 N 858. 10-UP, EA... 13¢ 1-9, EA... 11¢**

**M** STARTER SOCKETS AND LAMPHOLDERS. Combination Flex-Loc lampholder and Dual starter socket. Shpg. wt., 3 oz.

| 78 N 865 | 14, 15, 20 | Black | 52¢ | 47¢ |
|----------|------------|-------|-----|-----|
| 78 N 866 | 30 or 40   | White |     |     |

## STANDARD AND CIRCLINE FLUORESCENT LAMPS

For industry and the home. White lamps have characteristics of incandescent bulbs. Daylight lamps provide light with slightly bluish tint approximating daylight. Cool-white lamps are 4500° Kelvin. Life approximately 2000 hours. \*Circline lamps, size shown is diameter of circle. All have medium-size bi-pin bases except Type T5 (miniature bi-pin) and Circline, 4 pin bases. \*Rapid-start. Types T12 (40 w.) below are dual purpose—for regular or rapid start.

| Stock No. | Type | Watts | Size   | Tube Dia. | Color      | Std. Pkg. | Wt. Lbs. | NET EACH | In Std. Pkg. EA. |
|-----------|------|-------|--------|-----------|------------|-----------|----------|----------|------------------|
| 91 N 72   | T5   | 4     | 6"     | 5/8"      | Cool-white | 24        | 1/2      | 1.45     | 1.16             |
| 91 N 521  | T5   | 6     | 9"     | 5/8"      | White      | 24        | 3/4      | 1.50     | 1.17             |
| 91 N 511  | T12  | 14    | 15"    | 1 1/4"    | Cool-white | 24        | 1        | 1.10     | .88              |
| 91 N 500  | T8   | 15    | 18"    | 1"        | Daylight   | 24        | 1        | 1.15     | .92              |
| 91 N 514  | T12  | 15    | 18"    | 1 1/4"    | Cool-white | 24        | 1        | 1.10     | .88              |
| 91 NX 502 | T12  | 20    | 24"    | 1 1/4"    | Daylight   | 24        | 1 1/2    | 1.15     | .92              |
| 91 N 535  | T9   | 22    | 8 1/2" | 1 1/4"    | Cool-white | 12        | 1 1/2    | 3.60     | 2.85             |
| 91 N 516  | T10  | 32    | 12"    | 1 1/4"    | Cool-white | 12        | 1 1/2    | 3.50     | 2.80             |
| 91 NX 534 | T12  | 40    | 48"    | 1 1/4"    | Cool-white | 24        | 2        | 1.30     | 1.04             |
| 91 NX 506 | T12  | 40    | 48"    | 1 1/4"    | Daylight   | 24        | 2        | 1.35     | 1.07             |
| 91 NX 162 | T12  | 75    | 96"    | 1 1/4"    | Cool-white | 12        | 3        | 2.90     | 2.26             |
| 91 NX 163 | T12  | 75    | 96"    | 1 1/4"    | Daylight   | 12        | 3        | 3.00     | 2.35             |



## UNIVERSAL FLUORESCENT BALLASTS

Wide selection of high-quality ballasts for all popular fixtures. Normal power factor types are 55-65% corrected. High power factor types are 90-100% corrected. U.L. Approved. For 105-125 volts, 60 cycle AC. †For use with rapid-start lamps.

### 1-LAMP BALLAST—NORMAL POWER FACTOR

| Stock No. | Mfr's Type | Lamp Watts | Size             | Mtg. Ctrs. | Wt. Lbs. | NET EACH |
|-----------|------------|------------|------------------|------------|----------|----------|
| 78 N 889  | 200        | 14, 15, 20 | 3/4x1 1/2x1 1/4" | 2 1/4"     | 7/8      | 1.70     |
| 78 N 893  | 202-B      | 40         | 6/8x1 1/2x1 1/4" | 6"         | 1 1/4    | 1.85     |
| 78 N 888  | 445-RS     | 32, 40     | 6/8x1 1/2x1 1/2" | 6"         | 2        | 2.95     |

### 2-LAMP BALLAST—NORMAL POWER FACTOR

| 78 N 898 | 224    | 20/20 | 6/8x2 1/2x1 1/4" | 6"     | 1 1/4 | 2.05 |
|----------|--------|-------|------------------|--------|-------|------|
| 78 N 828 | 449-RS | 22/32 | 6/8x2 1/2x1 1/4" | 6 1/4" | 1 3/4 | 3.65 |

### 2-LAMP BALLAST—HIGH POWER FACTOR

| 78 N 896 | 203    | 40/40 | 9/8x2 1/2x1 1/4"   | 8 1/2"  | 3 3/4 | 4.05 |
|----------|--------|-------|--------------------|---------|-------|------|
| 78 N 897 | 205    | 40/40 | 9/8x2 1/2x1 1/4"   | 8 1/2"  | 4     | 6.00 |
| 78 N 829 | 1446   | 40/40 | 9/8x2 1/2x1 1/4"   | 8 1/2"  | 4     | 6.20 |
| 78 N 886 | 820-BR | 75/75 | 1 1/4x2 1/2x1 1/4" | 11 1/4" | 7 3/4 | 6.75 |



# ALLIED'S Catalog is Your Complete TV Antenna Guide

Use Allied's Credit Fund Plan on  
Antennas and Accessories  
Totaling \$20 or More

## How To Select Your TV Antenna



Indoor  
Antenna



Outdoor  
Antenna



Installation  
Accessories

Antennas on these pages are identified with 1, 2, 3, 4 or 5 stars to indicate range as given below. When in doubt, select antenna in next higher group. Stacking two of the same type TV antennas gives up to 50% more signal—recommended in locations over 200 miles from TV stations or where hills or buildings interfere.

★ Metropolitan-Suburban (up to 40 miles).

★★ Semi-Fringe (up to 60 miles).

★★★ Fringe (up to 85 miles).

★★★★ Deep-Fringe (up to 125 miles).

★★★★★ Super-Fringe (up to 200 miles).

Enjoy Sharper,  
Clearer Viewing  
of TV Pictures

## Place Your Weather-Worn Antenna Now

Wearing of the antenna can  
gradual decrease of pic-  
turity. So before blaming  
TV set, check your antenna.  
New antenna can restore pic-  
turity and detail.

GO ON ALLIED for your an-  
tennas. Whether you re-  
quire a simple indoor type or  
a large area array, you'll find the  
one you need in these pages.



Broken Elements



Corroded Connectors

## ALLIED'S OWN KNIGHT FRINGE-AREA ANTENNAS

### ★★★★ DEEP-FRinge CORODIZED ANTENNA

- 24 Elements Provide High Sensitivity
- For Color As Well As Black and White

gain, twin-driven VHF antenna; equals or surpasses  
performance of many high-priced arrays. Extremely high  
ivity on channels 2 and 13. All-aluminum construction  
gold corodized finish resists corrosion. Heavy-duty boom  
sturdy braces. Easy-to-install "snap-out" assembly. Less  
300-ohm lead. 8½ lbs. *By express or truck.*

331. NET ..... 21.23

### ★★★★ DEEP-FRinge NON-CORODIZED ANTENNA

ove, but not corodized. Shpg. wt., 8½ lbs.

332. NET ..... 18.70

### ★★ FRINGE-AREA CORODIZED ANTENNA

- 17 Elements Provide High Signal Gain
- Designed for Color and Black and White

rior fringe-area reception; has multiple directors and  
reflectors for high front-to-back ratio. Gold corodized.  
mast, 300-ohm line. 7 lbs. *By express or truck.*

333. NET ..... 15.26

### ★★★ FRINGE-AREA NON-CORODIZED ANTENNA

as above, but not corodized. Shpg. wt., 7 lbs.

334. NET ..... 14.02

## STACKING KITS FOR ANTENNAS LISTED ABOVE

-CORODIZED TYPE. For stacking two corodized  
as for greater gain. Shpg. wt., ½ lb.

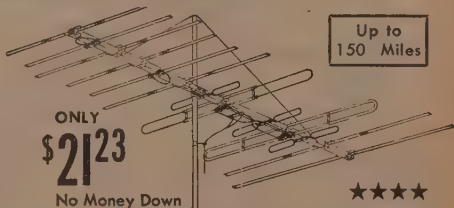
335. NET ..... 1.47

NON-CORODIZED TYPE. For stacking two non-corodized  
antennas for greater gain. Shpg. wt., ½ lb.

91 CX 336. NET ..... 1.18

Antennas and Accessories Are Available on Allied's Credit Fund Plan

329



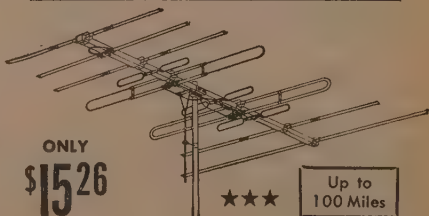
Up to  
150 Miles

ONLY  
\$21<sup>23</sup>

No Money Down

★★★★

Get Brilliant Pictures  
With Either of These  
Economy-Priced Antennas



ONLY  
\$15<sup>26</sup>

★★★

Up to  
100 Miles

# Allied's Amazing New Knight 5-Star Antenna

NEW . . . For the  
Deepest Fringe  
Areas

**FANTASTIC SUPER-FRINGER  
RANGE—UP TO 200 MILES**

NO MONEY  
DOWN

★★★★★

ONLY

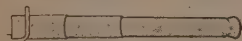
**\$46<sup>45</sup>**

- 33 High & 7 Low Band Elements
- Eight Times Greater Broadcast Support
- New Duo-Twin-Drive Increases Gain

Even deepest fringe areas can receive best possible TV signals with this super-powered antenna. Duo-Twin-Drive gives performance equal to 6 half-wave driven elements. Built for amazing strength and rigidity: split boom (13' long, 1" square) reinforced with triple U-bolt saddles, boom suspension rods, and triple tapered elements with three wall thickness at bracket end. Gold corodized to prevent corrosion. Less mast and twin line. Shpg. wt., 15½ lbs.

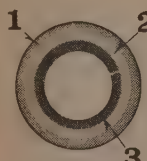
87 CU 811. No Money Down. NET.....46.45  
87 CU 812. As above, but non-corodized aluminum. 15½ lbs. 42.45

25% Triple Tubed



Triple  
Tapered  
Elements

50% Double Tubed



Elements Are:

1. Triple Walled at Stress Points
2. Double Thickness at Center
3. Single Thickness at Ends

## STANDARD 5-STAR ANTENNAS

Economy version of Knight 5-Star. Has single-wall elements.

87 CU 813. Gold Corodized. Shpg. wt., 13½ lbs. NET.....38.15  
87 CU 814. Plain Aluminum. Shpg. wt., 12½ lbs. NET.....35.25

## STACKING KITS FOR 5-STAR ANTENNAS

87 CU 815. Gold Corodized. Shpg. wt., ½ lb. NET.....1.45  
87 CU 816. Plain Aluminum. Shpg. wt., ½ lb. NET.....1.45

## KNIGHT 4-STAR AND 3-STAR ANTENNA KITS

**Complete With Mast and All Accessories**

- Quick and Easy Installation
- Complete with All Hardware
- For Color or Black and White
- With Detailed Instructions
- Choice of 20, 30 or 40-ft. Mast
- Top Quality Throughout

Get excellent TV reception at big savings! Distance to TV station determines which antenna to use; local terrain determines mast height. The fully-automatic AR-22 rotator aims antenna for best reception. All kits are complete with weather-resistant antenna; steel mast; angle mount; guy wire; 100-ft. twin line; 50-ft. ground wire; ground rod; twin-line lightning arrester; all hardware; instructions. Rotators are for 110-120 v., 60 cycle AC. *Shipped by truck or express.*

## ★★★★DEEP-FRINGER ANTENNA KITS

Include 4-Star gold-corodized antenna and all accessories and instructions for making a quick, easy installation.

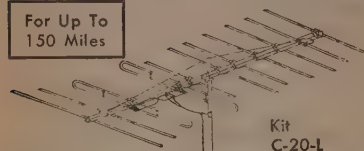
| Stock No. | Type   | Description               | Shpg. Wt. | NET   |
|-----------|--------|---------------------------|-----------|-------|
| 91 CZ 383 | C-20   | 20-ft. mast; with rotator | 55 lbs.   | 69.35 |
| 91 CZ 384 | C-20-L | 20-ft. mast; less rotator | 31 lbs.   | 31.95 |
| 91 CZ 385 | C-30   | 30-ft. mast; with rotator | 71 lbs.   | 73.45 |
| 91 CZ 386 | C-30-L | 30-ft. mast; less rotator | 47 lbs.   | 35.55 |
| 91 CZ 387 | C-40   | 40-ft. mast; with rotator | 82 lbs.   | 77.55 |
| 91 CZ 388 | C-40-L | 40-ft. mast; less rotator | 58 lbs.   | 40.05 |

## ★★★★FRINGE ANTENNA KITS

Include 3-Star gold-corodized antenna and all accessories and instructions for making a quick, easy installation.

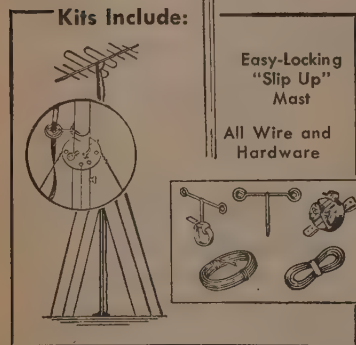
| Stock No. | Type   | Description               | Shpg. Wt. | NET   |
|-----------|--------|---------------------------|-----------|-------|
| 91 CZ 389 | B-20   | 20-ft. mast; with rotator | 50 lbs.   | 63.35 |
| 91 CZ 390 | B-20-L | 20-ft. mast; less rotator | 26 lbs.   | 25.95 |
| 91 CZ 391 | B-30   | 30-ft. mast; with rotator | 66 lbs.   | 67.45 |
| 91 CZ 392 | B-30-L | 30-ft. mast; less rotator | 42 lbs.   | 29.55 |
| 91 CZ 393 | B-40   | 40-ft. mast; with rotator | 77 lbs.   | 71.55 |
| 91 CZ 394 | B-40-L | 40-ft. mast; less rotator | 53 lbs.   | 34.15 |

For Up To  
150 Miles



Kit  
C-20-L

**Kits Include:**



Easy-Locking  
"Slip Up"  
Mast

All Wire and  
Hardware

## OPTIONAL ROTATOR PACKAGE



- CDR Rotator
- Control
- 10-ft. Mast
- 100-ft. Cable
- Lightning Arrester



Automatic Rotator and Rotator Control



# FOR CHIMNEY, ATTIC OR ROOF MOUNTING

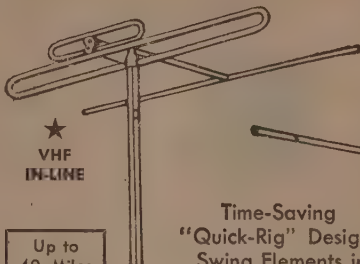
# TV Antennas and Antenna Kits

METROPOLITAN AND NEAR-FRINGE ANTENNAS (TO 60 MILES)

Quickly and  
Easily  
Installed



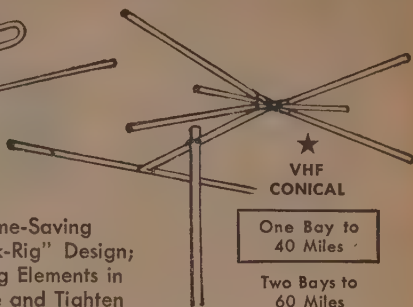
COMPLETE  
WITH ALL  
HARDWARE



★  
VHF  
IN-LINE

Up to  
40 Miles

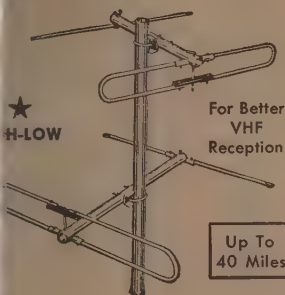
Time-Saving  
"Quick-Rig" Design;  
Swing Elements in  
Place and Tighten



★  
VHF  
CONICAL

One Bay to  
40 Miles

Two Bays to  
60 Miles



★  
H-LOW

For Better  
VHF  
Reception

Up To  
40 Miles

## HIGH-LOW ANTENNA KITS

Highly Efficient 2-Band Design  
Receptors "Aim" Separately—  
Give Best Signal on Each Band  
Mounting Hardware Included

### ★ HIGH-LOW ANTENNA KIT WITH CHIMNEY MOUNT

A two-band VHF antenna  
kit at a remarkably low  
price. Separate directional  
adjustments permit "aim-  
ing" high and low-band elements in-  
dividually. Gives peak perform-  
ance in areas where high and low-  
band signals come from different di-  
rections. Elements are 1/2" alumi-  
num tubing. Kit includes: antenna;  
steel mast; 5 screw-in standoffs;  
2 mast standoffs; 50' of twin line;  
lightning arrester; all chimney  
mounting hardware. Wt., 10 lbs.

91 CX 048. NET.....7.95

### ★ HIGH-LOW ANTENNA KIT WITH ROOF MOUNT

Same as above, but with universal-  
angle roof mount. Wt., 9 lbs.

91 CX 047. NET.....6.92

### ★ HIGH-LOW ANTENNA ONLY

Above antenna; less accessories.  
Shpg. wt., 5 lbs.

91 CX 016. NET.....4.19

## GOLD ANODIZED IN-LINE ANTENNA KITS

- Resist Corrosion and Rust
- Rugged 1/2" Aluminum Tubing
- Quickly, Easily Installed

### ★ IN-LINE KIT WITH CHIMNEY MOUNT

NET  
\$937  
Complete VHF antenna  
kit at a low, money-saving  
price. Time-proven in-line  
design provides sharp, clear  
pictures on channels 2-13.

Elements are of rugged, anodized  
1/2" aluminum tubing. Gold anodiz-  
ing resists smoke, soot and ravages  
of weather. Kit includes: antenna  
assembly; 5' steel mast; 50' of 300-  
ohm twin line; 5 screw-in standoffs;  
lightning arrester; 2 mast standoffs;  
straps and clamps for chimney  
mounting. Shpg. wt., 10 lbs.

91 CX 326. NET.....9.37

### ★ IN-LINE KIT WITH ROOF MOUNT

Same as above, but with universal-  
angle roof mount. Wt., 10 lbs.

91 CX 327. NET.....8.98

### ★ IN-LINE ANTENNA ONLY

Same antenna as above, but less  
accessories. Wt., 5 lbs.

91 CX 328. NET.....5.84

## STANDARD IN-LINE ANTENNA KITS

### ★ IN-LINE KIT WITH CHIMNEY MOUNT

Complete VHF antenna kit with  
chimney mount and accessories listed  
with 91 CX 326 above, but without  
gold anodizing. Wt., 10 lbs.

92 CX 045. NET.....7.99

### ★ IN-LINE KIT WITH ROOF MOUNT

As above, but with universal-angle  
roof mount. Other accessories in-  
cluded. Shpg. wt., 9 lbs.

92 CX 041. NET.....7.21

### ★ IN-LINE ANTENNA ONLY

Above antenna; less accessories.  
Shpg. wt., 5 lbs.

92 CX 042. NET.....4.19

## CONICAL ANTENNA KITS

- "Quick-Rig" Installation
- Highly Efficient Reception  
On All VHF TV Channels
- Rugged, Trouble-Free Design

### ★ SINGLE-BAY CONICAL KIT WITH CHIMNEY MOUNT

NET  
\$696  
Value-packed antenna kit  
for excellent reception on  
all VHF TV channels. Rug-  
gedly designed elements  
of 3/8" aluminum tubing.

Kit includes: conical antenna; sturdy  
5' steel mast; 50' of 300-ohm twin line;  
2 mast standoff insulators; 4 screw-  
in standoffs; lightning arrester;  
straps and clamps for chimney mtg.  
Everything for a first-class TV an-  
tenna setup! Wt., 7 lbs.

92 CX 174. NET.....6.96

### ★ SINGLE-BAY CONICAL KIT WITH ROOF MOUNT

As above, but with universal-angle  
roof mount. Shpg. wt., 6 lbs.

92 CX 135. NET.....6.27

### ★★ TWO-BAY CONICAL KIT WITH CHIMNEY MOUNT

Same as 92 CX 174, but 2-bay array,  
for excellent near-fringe VHF TV re-  
ception. With 10' mast. 10 lbs.

92 CX 173. NET.....9.54

### ★★ TWO-BAY CONICAL KIT WITH ROOF MOUNT

As above, but with universal-angle  
roof mount. Shpg. wt., 9 lbs.

92 CX 133. NET.....8.58

### ★ SINGLE-BAY ANTENNA ONLY

Above antenna; less accessories.  
Shpg. wt., 3 lbs.

92 CX 136. NET.....2.66

STACKING KIT. To stack 2 single-bay  
conicals into 2-bay array. 8 oz.

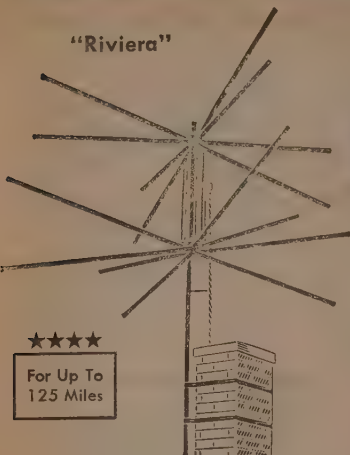
97 CX 389. NET......64c

STACKING KIT. To stack two 2-bay  
conicals into 4-bay array. Shpg.  
wt., 1 1/4 lbs.

97 CX 387. NET.....1.55

## ALL-CHANNEL "REMBRANDT" ANTENNA KITS

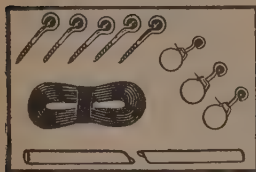
"Riviera"



★★★★

For Up To  
125 Miles

Accessories Supplied with  
"Riviera" Antenna Kit



### 12-Position Switch



Twelve-position switch—included with famous All-Channel "Riviera" and "Atlas" antennas, listed below—selects proper antenna elements for clearest picture from any direction without having to rotate antenna assembly.

- All-Direction Pickup
- Electronic "Rotation"
- Aluminum Construction
- Preamsembled Elements

### ★★★★ "RIVIERA" VHF KIT

NET

**\$3292**

NO MONEY  
DOWN

All-directional, 2-bay antenna with accessories. 16—60" elements for excellent deep fringe reception. 12-position switch mounts at TV set—selects proper elements for best reception from any direction. Aluminum construction with 4—45" stacking bars. Elements are preassembled—simply fold out for quick installation. Includes 2—5-foot masts; 100 ft. of lead-in; 3 mast insulators; 5 wall insulators; chimney mount. 1/8" dia. diamond-embossed elements. 15 lbs.

92 CU 137. No Money Down. NET. 32.92

"RIVIERA" ANTENNA AND SWITCH. Less mast and installation accessories. 10 lbs.  
98 CU 495. No Money Down. NET. 19.85

WIRE FOR "RIVIERA". 4-conductor lead-in wire. Shpg. wt., 100 ft., 2 lbs.

47 TX 589. 100-ft. Coil. NET. 8.90

47 W 599. Over 100 ft., PER 100 FT. 8.90

### ★★★★ 2-BAY "ATLAS" VHF KIT

NET

**\$2245**

NO MONEY  
DOWN

UP TO 85 MILES. "Atlas" near-fringe antenna with 8—45" flip-out elements (preassembled) in each of 2 bays. 4—45" stacking bars. With same 12-position selector switch as "Riviera" described at left. Has 1/8" dia. elements; diamond-embossed for extremely efficient signal pickup.

Includes 70 feet of flat transmission line lugged and wired to antenna, 2—5-foot mast sections, 4 standoff insulators, 4" wall-mount brackets. Shpg. wt., 14 lbs.

91 CU 337. No Money Down. NET. 22.45

### ★ SINGLE-BAY "ATLAS" KIT

NET

**\$1495**

UP TO 60 MILES. For metropolitan and suburban areas. As above, but single 8-element array. With 12-position switch, 70-foot lead-in, 4 standoffs, mast, 4" wall-mount brackets. Shpg. wt., 8 1/2 lbs.

71 CU 672. NET. 14.95

## FINNEY "GEOMATIC" FRINGE-AREA TV ANTENNAS

High-quality yagi TV antennas for superior black-and-white and color reception in fringe areas. Feature durable, aluminum construction for dependable performance and resistance to weather extremes. Provide maximum gain, sharp directivity pattern, flat frequency response, and high front-to-back ratio.

### SINGLE-CHANNEL YAGI VHF TV ANTENNAS

★★★★ Models Y10 and H10. Av. shpg. wt., 4 1/4 lbs.

| Stock No. | Model  | Channel | List    | EACH  |
|-----------|--------|---------|---------|-------|
| 87 CU 801 | Y10-2  | 2       | \$22.20 | 13.05 |
| 87 CU 802 | Y10-3  | 3       | 21.65   | 12.73 |
| 87 CU 803 | Y10-4  | 4       | 20.55   | 12.08 |
| 87 CU 804 | Y10-5  | 5       | 19.55   | 11.50 |
| 87 CU 805 | Y10-6  | 6       | 18.80   | 11.05 |
| 92 CU 552 | H10-7  | 7       | 9.95    | 5.85  |
| 92 CU 553 | H10-8  | 8       | 9.95    | 5.85  |
| 92 CU 554 | H10-9  | 9       | 9.95    | 5.85  |
| 92 CU 555 | H10-10 | 10      |         |       |
| 92 CU 556 | H10-11 | 11      | 9.95    | 5.85  |
| 92 CU 557 | H10-12 | 12      |         |       |
| 92 CU 558 | H10-13 | 13      |         |       |

★★★★ Model H10-713. Similar to single-channel antennas, above, but covers channels 7-13. Shpg. wt., 4 1/2 lbs.  
92 CU 559. List, \$12.95. NET. 7.61

MODEL B STACKING KIT. For stacking all Finney Series Y5 and Y10 single-channel antennas. Shpg. wt., 8 oz.  
87 C 800. List, \$2.10. NET. 1.53

★★★★ Models Y5 and H5. Av. shpg. wt., 2 lbs.

| Stock No. | Model | Channel | List    | EACH |
|-----------|-------|---------|---------|------|
| 87 CU 806 | Y5-2  | 2       | \$11.05 | 6.50 |
| 87 CU 807 | Y5-3  | 3       | 10.77   | 6.33 |
| 87 CU 808 | Y5-4  | 4       | 10.42   | 6.13 |
| 87 CU 809 | Y5-5  | 5       | 9.72    | 5.71 |
| 87 CU 810 | Y5-6  | 6       | 9.31    | 5.48 |
| 92 CX 560 | H5-7  | 7       | 6.65    | 3.91 |
| 92 CX 561 | H5-8  | 8       | 6.65    | 3.91 |
| 92 CX 562 | H5-9  | 9       | 6.65    | 3.91 |
| 92 CX 563 | H5-10 | 10      |         |      |
| 92 CX 564 | H5-11 | 11      | 6.65    | 3.91 |
| 92 CX 565 | H5-12 | 12      |         |      |
| 92 CX 566 | H5-13 | 13      |         |      |

★★★★ MODEL H6-713. Twin-driven 6-element yagi. Similar to above, but covers channels 7-13. Shpg. wt., 2 3/4 lbs.  
92 CX 567. List, \$8.75. NET. 5.14

MODEL A STACKING KIT. For all Finney Series H5 and H10 antennas—also Model H6-713 and H10-713. Shpg. wt., 8 oz.  
92 C 886. List, \$2.10. NET. 1.23

### ★★★★ "GEOMATIC" LOW-BAND ANTENNAS

"Customized" Series L "Geomatic" television antennas for outstanding "deep fringe" reception on the low-band channels. Model L-26 covers the entire low band; all others cover specific portions.

Have high gain, sharp directivity plus high front-to-back ratio. Pre-assembled "snap-out" elements—heavy, square aluminum boom. May be stacked to achieve higher gain—see Model C Stacking Kit. Less mast and 300-ohm line. Av. shpg. wt., 8 1/2 lbs.

| Stock No. | Model | Channels |
|-----------|-------|----------|
| 92 CZ 283 | L-26  | 2-6      |
| 92 CZ 284 | L-25  | 2-5      |
| 92 CZ 285 | L-24  | 2-4      |
| 92 CZ 286 | L-36  | 3-6      |
| 92 CZ 287 | L-35  | 3-5      |
| 92 CZ 288 | L-46  | 4-6      |
| 92 CZ 289 | L-45  | 4 and 5  |

List, \$24.90. NET EACH. 14.64

92 CX 087, MODEL C STACKING KIT. For Finney L series, above. 1 lb. NET. 1.82

For Up To  
125 Miles

H & Y Series  
10-Element

For Peak Performance  
in Remote Signal Areas

For Up To  
85 Miles

H & Y Series  
5-Element

Popular, High-Efficiency Antenna

For Up To  
125 Miles

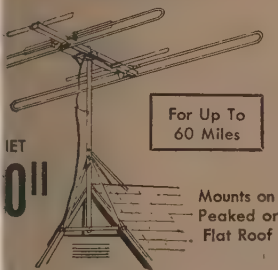
L-Series  
Low-Band

For Outstanding Performance  
on Low-Band Channels



# Finney Fringe-Area TV Antennas

## VHF BROAD-BAND TV ANTENNA KIT



For Up To  
60 Miles

Mounts on  
Peaked or  
Flat Roof

**MODEL B-213KT—60 Miles.** A low-compact, twin-driven antenna with gain on both low and high bands. Its design provides performance rivaling that of more costly stacked conicals and yagi-type antennas. "Fidelity-Phasing" assures remarkable reception on both black and white. Has extremely high pick-up pattern and very high front-to-back ratio. Features "Quad-Pod" unit mount for easy installation on any All-aluminum pre-assembled design. Stands heavy icing. Complete with and mount; less 300-ohm twin line. wt., 5½ lbs.

**Z 395, List, \$17.20. NET.....10.11**

**MODEL B-213—60 Miles.** As above, but last and universal mount. 4 lbs.

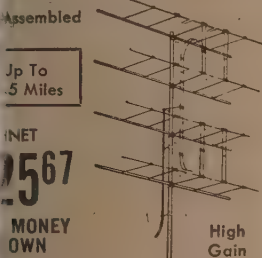
**Z 396, List, \$11.85. NET.....6.97**

**MODEL B-213S—85 Miles.** Same as but stacked for extra gain. 6 lbs.

**Z 397, List, \$24.00. NET.....14.11**

**Antennas Are Available  
Allied's Credit Fund Plan  
NO MONEY DOWN**

## D-LATERAL UHF-VHF ANTENNA



Up To  
5 Miles

NET  
\$567

MONEY  
OWN

High  
Gain

### MODEL 400-A ANTENNA

★—125 Miles. A deep-fringe double element antenna for outstanding reception on all UHF and VHF TV channels. 32 elements achieve extremely high directivity and signal-to-noise ratio. Its excellent reception on VHF channels at distances of 125 miles and more. Weight construction—weighs only 8 lb. element brackets self-locking and self-aligning. Rugged all-aluminum construction stainless steel hardware. Only one in required (tubular type recommended). Requires 10-ft. (minimum) mast, mast and 300-ohm line. Shpg. wt., 12 lb. *Truck or express only.*

**Z 104, List, \$43.65. NET.....25.67**

## TWIN-DRIVEN "GEOMATIC" VHF ANTENNAS

- High Gain—Sharp Directivity
- Pre-Assembled for Easy Installation

★★★★ **MODEL GB-8—125 Miles.** Gold-corodized, deluxe "Geomatic" unit with 3 directors and 2 reflectors for top-notch deep-fringe performance. Exclusive "Fidelity Phasing" simplifies design, gives in-phase colinear currents. Flat response for superb color reception. Oversize aluminum boom, "box girder" design, and "lock-tite, no-tilt" bracket assure fast set-up, high strength; prevents bent elements. Less mast, lead-in. 10 lbs. *Shipped truck or express only.*

**92 CZ 594, List, \$43.25. NET.....25.43**

★★★★ **MODEL B-8—125 Miles.** Same as above, without gold corodizing. Shpg. wt., 10 lbs. *Truck or express. No Money Down.*

**92 CZ 085, List, \$39.00. NET.....22.93**

★★★★ **MODEL B-7—125 Miles.** Has same features as Model B-8 above, but with 1 reflector. Shpg. wt., 6½ lbs. *Shipped by truck or express only.*

**92 CZ 093, List, \$25.90. NET.....15.23**

★★★★ **MODEL B-6—85 Miles.** Has same features as Model B-8 above, but has 1 reflector and 1 director. Shpg. wt., 5½ lbs. *Shipped by truck or express only.*

**92 CZ 094, List, \$19.65. NET.....11.55**

### SINGLE-DRIVEN "GEOMATICS"

All of the antennas listed below incorporate "fidelity-phasing" for extreme efficiency on both high and low VHF bands. Ruggedly constructed and completely pre-assembled. *Not mailable; shipped by truck or express only.*

★★★★ **MODEL B-5—125 Miles.** Super fringe antenna. Shpg. wt., 9¼ lbs.

**92 CZ 074, List, \$33.25. NET.....19.55**

★★★★ **MODEL B-4—85 Miles.** For fringe areas. Sharp directivity. 6 lbs.

**92 CU 076, List, \$18.20. NET.....10.70**

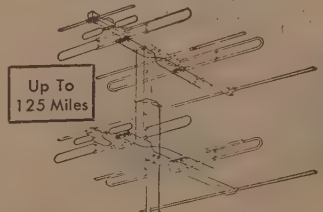
★★★★ **MODEL B-3—85 Miles.** For suburban-fringe areas. Wt., 5 lbs.

**92 CU 078, List, \$14.00. NET.....8.23**

★★★★ **MODEL B-2—60 Miles.** Metropolitan, suburban semi-fringe. 3½ lbs.

**92 CU 082, List, \$7.65. NET.....4.50**

### "GEOMATIC" TWIN-DRIVEN 2-BAY VHF ANTENNAS



Up To  
125 Miles

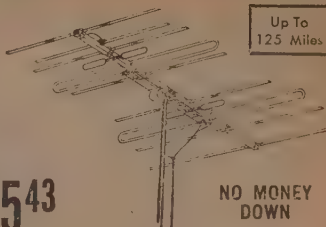
ONLY  
\$2434  
NO MONEY  
DOWN

★★★★ **MODEL B-66-A.** Deep fringe antenna featuring very great front-to-back ratio and high gain on all channels. "Fidelity Phasing" efficiently combines the low-band folded dipole operation and high-band 3-element colinear operation without complicated phasing harnesses. Pre-assembled for surprisingly simple installation. Less mast and twin line. Shpg. wt., 10 lbs. *Truck or express.*

**92 CU 568, List, \$41.40. NET.....24.34**

**MODEL B-66-C.** For maximum F/B ratio on channels 2 and 3, and maximum gain on 2 through 6. Shpg. wt., 10 lbs. *Shipped by truck or express only.*

**92 CU 569, List, \$42.40. NET.....24.93**



Up To  
125 Miles

NO MONEY  
DOWN

### STACKING KITS

**MODEL A.** For stacking all Series B antennas above and at left. Gives increased gain on Chs. 4, 6-12 with Model B-4; Chs. 4-6, 8-13 with Model B-5; Chs. 3, 7-13 with Models B-6, B-7; Channels 7 through 13 on all other models. Shpg. wt., 8 oz.

**92 CZ 086, List, \$2.10. NET.....1.23**

**MODEL B.** Stacks Models B-2, B-3, B-4, B-5. Boosts Gns. 2-6 with Model B-2; Chs. 2-6, 13 with Model B-3; Chs. 2-6, 12, 13 with Model B-4; Chs. 3-8, 13 with Model B-5. Shpg. wt., 12 oz.

**92 CX 075, List, \$2.60. NET.....1.53**

**MODEL C.** For stacking GB-8, B-8, B-7, or B-6 antennas. Gives increased gain on Chs. 2-6 with Model B-6; Chs. 2-6, 11-13 with Model B-7; Chs. 2-6, 10-13 with Models B-8 and GB-8. Shpg. wt., 1 lb.

**92 CX 087, List, \$3.10. NET.....1.82**

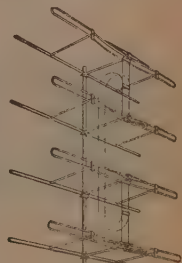
### SUPER-FRinge ANTENNA

"Fidelity  
Phasing"  
Design

Up To  
150 Miles

NET  
\$2814

NO MONEY  
DOWN



★★★★ **MODEL F4.** Super-fringe VHF antenna with exclusive "Fidelity-Phasing." Produces superior performance on all VHF channels from 2 through 13. Excellent reception even at locations extremely distant from TV stations. Highly suitable for color-TV reception—has very flat frequency response; less than 1 db variation in frequency response on any channel. 4 driven low-band, in-phase folded dipoles, plus 12 driven high-band, in-phase, folded dipoles form a highly effective colinear array. Extremely high sensitivity and directivity. Rugged, lightweight, aluminum construction. Pre-assembled for quick, simplified installation. Less mast, 300-ohm twin line. Wt., 13 lbs. *Truck or express.*

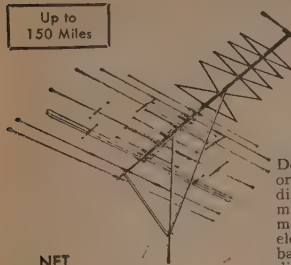
**92 CZ 072, List, \$47.85. NET.....28.14**

Items with U or Z in Stock Number Shipped Truck or Express

# JFD, Jerrold and Davis Fringe-Area TV Antennas

JFD ANTENNAS SHRINK THE MILES—FLATTEN THE MOUNTAINS

Up to  
150 Miles



## ★★★★ AX1111 "SATELLITE HELIX"

- 31-Element Design
- Gold-Anodized Aluminum
- High Gain on All Channels

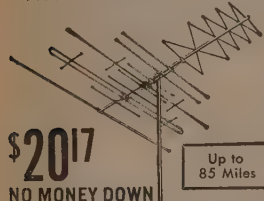
NET  
**\$32<sup>34</sup>** NO MONEY DOWN

stands severe winds and icing; long elements are reinforced with aluminum dowels. 1" square boom securely locks to mast and has 2—1" tubular braces. Less mast, lead-in. Shpg. wt., 15 lbs. 32.34  
78 CZ 502. List, \$55.00 NET.....

MODEL VX1111 "SATELLITE HELIX". Same as Model AX1111 above, but has natural silver aluminum finish instead of gold anodized finish. Shpg. wt., 15 lbs. No Money Down.  
91 CZ 821. List, \$49.50. NET.....29.11

## ★★★★MODEL AX711 GOLD-ANODIZED "STAR HELIX"

- Narrow Beam Width
- Good High-Band Gain



**\$20<sup>17</sup>**  
NO MONEY DOWN

Provides an extremely high front-to-back ratio for excellent rejection of undesired signals. Delivers top performance on all VHF channels in semi-fringe areas — can also be used in strong-signal UHF areas. Has gold-anodized surface. Long elements are reinforced with aluminum dowels—heavy-gauge boom is full 1" square. Designed for reduced wind resistance and ice loading. Pre-assembled—just flip elements into place. Constructed of solid-drawn aluminum. Less mast, twin line. Shpg. wt., 8 lbs.  
91 CZ 822. List, \$34.30. NET.....20.17

MODEL SX711. Same as AX711, but silver aluminum finish.  
92 CZ 113. List, \$29.35. NET.....17.26



## ★★★★ ANS400 "BANSHEE"

- 30-Element Design
- Gold Anodized
- Powerful Twin-Driven Elements

Up to  
125 Miles  
NET **\$25<sup>99</sup>**

NO MONEY DOWN

Engineered to bring sharp, clear pictures to deep-fringe areas. Twin-driven elements with precision cut and spaced directors and reflectors extend high-gain response across the full VHF band. Increased sensitivity obtained through the use of loading coils on the director elements. Low silhouette offers little wind resistance—gold anodized finish gives long protection against corrosion. Two braces of 1" aluminum tubing solidly support the 1" square boom. Driven elements are rugged 1" and 3/4" diameter tubing with capped ends. Dipoles are "sleeve" reinforced. Pre-assembled. Less mast, lead-in. Shpg. wt., 9 lbs.  
78 CZ 505. List, \$44.20. NET.....25.99

## ★★★ MODEL AN400 "BANSHEE"

19 Elements—For Up To 85 Miles—Gold Anodized—Low Silhouette. Twin-driven elements with phased directors and reflectors. Minimizes snow and ghosts in near fringe and fringe locations. Same rugged construction as ANS-400, above. Completely pre-assembled for fast, simple installation. Less mast and 300-ohm twin line. Shpg. wt., 8 lbs.  
78 CZ 506. List, \$28.50. NET.....16.79

## ★★★★ MODEL ANS300 "SUPER BLITZ BANSHEE"

27 Elements—Up To 125 Miles—Gold Anodized—Low Silhouette. High performance antenna employing efficient multi-function element design. Features twin driven elements in a super-sensitive broad-band array. Includes two 1" diameter braces for support. Very simple installation. Less mast and 300-ohm twin line. Shpg. wt., 9 lbs. No Money Down.  
91 CZ 352. List, \$40.70. NET.....23.99

## ★★★ MODEL AN300 "BLITZ BANSHEE"

17 Elements—Up To 85 Miles—Gold Anodized—Low Silhouette. Efficient VHF antenna for TV channels 2 to 13. Features same twin driven dipole and multi-function element design of Model ANS300 above. Driven elements are of 1" round, seamless tubing; has capped ends to prevent wind whistling. Less mast and 300-ohm twin line. Shpg. wt., 9 lbs.  
91 CZ 353. List, \$26.10. NET.....15.39

## JERROLD "MAGIC CARPET" ANTENNA



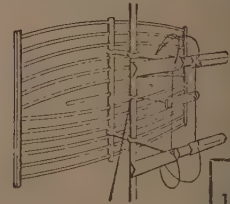
- Covers Entire VHF-TV and FM Bands
- Can Be Completely Concealed in Attic, Under Carpet, Etc.



All Printed Circuit  
Simple Installation...

NET  
**\$5<sup>98</sup>**  
This revolutionary, extremely economical TV-FM indoor antenna produces excellent results when used in locations up to thirty miles from the broadcasting station. Actually a full-size conical antenna projected on a flat surface 60x22" in size. Extremely convenient where use of an outdoor antenna is impractical. Designed for use in attics, on garage or utility room ceilings, beneath rugs, on walls, under sofas, etc. Antenna elements are deposits of finely powdered pure silver in plastic binder, imprinted on a tough, flexible, fibrous sheet. Recommended for use at the highest practicable level within the home (away from metallic plumbing and heating systems). Very simple to install—just set it in position that provides best reception—tack it and forget it. Since it is not exposed to the weather, it will literally last a lifetime. Gain characteristics are similar to those of standard outdoor 1.4:1. "Magic Carpet" antenna is supplied complete with six fasteners and 25 feet of 300-ohm twin line—ready to use. Shpg. wt., 1 3/4 lbs.  
78 CX 517. NET.....5.98

## DAVIS UHF-VHF TV ANTENNA



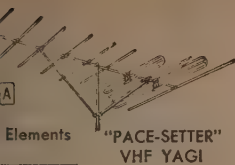
Deep  
Fringe

Up To  
125 Miles

★★★★ MODEL SV-ZR-I "ZIG-RIG." Provides excellent deep-fringe area VHF reception and excellent UHF reception in metropolitan and suburban signal areas. Delivers 3 db or more gain on high channels. Features electric dipole separators. Antenna is equipped with 2 matching harnesses—permitting antenna on weakest channel still maintain good all-channel coverage. Completely preassembled. Less mast, lead-in. Shpg. wt., 12 lbs.  
92 CZ 210. List, \$29.95. NET.....17.99

MODEL SK-I STACKING KIT. For horizontal or vertical stacking of 2—SV-ZR-I (list above). Shpg. wt., 1 1/2 lbs.  
51 CX 054. List, \$3.25. NET.....1.99





Up To  
15 Miles

## PACE-SETTER™ YAGI ANTENNAS

Very high gain and sharp directivity—maximum reception in deep fringe. Each antenna designed for best performance on one channel. Rustproof, seamless 1" O.D. aluminum crossarms. Pre-assembled, for quick, easy installation. Can be stacked for even greater signal gain, harnesses below). Less mast and 300-ohm twin line.

★ ★ ★ SINGLE CHANNEL 10-ELEMENT TYPES—125 Miles. Will provide 52% signal gain than conventional 5-element yagis. Ten elements on a full h crossarm deliver over 11½ db gain, sharp directivity. Y-type boom braced with low band antennas (for channel 2 to 6) for additional support. Av. wt., 9 lbs.

| No. | Type  | Channel | List    | EACH  |
|-----|-------|---------|---------|-------|
| 231 | 1022  | 2       | \$22.94 | 13.48 |
| 232 | 1023  | 3       | 22.24   | 13.07 |
| 233 | 1024  | 4       | 21.41   | 12.59 |
| 234 | 1025  | 5       | 20.57   | 12.09 |
| 235 | 1026  | 6       | 20.16   | 11.86 |
| 236 | 1027  | 7       |         |       |
| 237 | 1028  | 8       |         |       |
| 238 | 1029  | 9       |         |       |
| 239 | 10210 | 10      | 9.25    | 5.44  |
| 240 | 10211 | 11      |         |       |
| 241 | 10212 | 12      |         |       |
| 242 | 10213 | 13      |         |       |

★ SINGLE CHANNEL 5-ELEMENT TYPES—115 Miles. Similar to above, but have 5 elements. High-gain, single-driven-element. Provide 9 db gain on all channels. Consists of 3 directors, 1 reflector and 1 dipole. Av. shpg. wt., 5 lbs.

| No. | Model | Channel | List    | EACH |
|-----|-------|---------|---------|------|
| 322 | 522   | 2       | \$12.50 | 7.35 |
| 323 | 523   | 3       | 12.25   | 7.20 |
| 324 | 524   | 4       | 11.85   | 6.97 |
| 325 | 525   | 5       | 10.60   | 6.23 |
| 327 | 526   | 6       | 10.45   | 6.24 |

★ PACE-SETTER™ STACKING HARNESSSES—Stacking harnesses for stacking any of the 10-element yagi antennas listed above, extra gain. Av. shpg. wt., ½ lb.

| No.   | Type | Channel | EACH |
|-------|------|---------|------|
| X 253 | YT2  | 2       |      |
| X 254 | YT3  | 3       |      |
| X 255 | YT4  | 4       | 1.03 |
| X 256 | YT5  | 5       |      |
| X 257 | YT6  | 6       |      |
| X 300 | YT13 | 7-13    | .73  |

## ★ LOW-COST CONICAL WINDOW ANTENNA

EL C119. Low-cost, all-aluminum conical window antenna for strong-signal areas. Ideal for apartment buildings, hotels, etc., or wherever roof-top installations not practical, but where the greater signal gathering of an outdoor antenna is desired. Extremely simple to install. Easily fits on the outer frames of most windows (adjustable from 32" to 42" in width. Antenna can be rotated to proper position for best reception. Comes complete with all necessary mounting hardware—ready to install, convenient installation. Less 300-ohm twin line connection to TV set. Shpg. wt., 7 lbs.

X 084. NET.....5.71



Up To  
40 Miles

## QUALITY "VEE-BEAM" VHF ANTENNAS

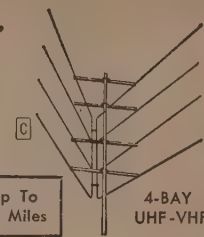
★ ★ ★ MODEL Q800—40 Miles. Vee-Beam antenna—covers channels from 2 to 13. Engineered for increased gain, especially on high band. "Quick-Rig" pre-assembled design for rapid, easy installation—entire array slides out of package readily for flip-assembly; elements automatically lock in place. Line tension reliever protects twin-line connection. Features corrosion-proof, aircraft aluminum construction throughout. Supplied complete with ½" boom. Includes built-in lightning arrester. Less mast and 300-ohm twin line. Shpg. wt., 3½ lbs. 98 CU 166, List, \$6.25. NET.....3.67

★ ★ ★ MODEL Q801—60 Miles. Two-bay, Vee-Beam. Consists of two of above Model Q800 vee-beams stacked for an additional 3 db gain. Includes half-wavelength jumper harness for 300-ohm impedance match. Gives excellent reception in metropolitan-suburban areas and in near-fringe localities. Its high sensitivity and sharp directivity deliver clear, steady pictures. Less mast and 300-ohm twin line. Shpg. wt., 7 lbs. 98 CU 167, List, \$12.40. NET.....7.29

## TRANSLATOR UHF ANTENNAS

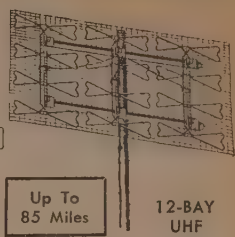
★ ★ ★ MODEL TRI212—Up to 60 Miles. 12-bay UHF antenna designed especially for reception over long distances. Sharply directive and highly sensitive on UHF channels 70-83. Average 15 db gain is obtained from 12 horizontally and vertically wide-spaced and phased "cardioid" dipoles working off an oversized reflector. Reflectable rear signal and noise pick-up. Has rigidly constructed galvanized wire screen with precision-formed ¼" solid aluminum dipoles. Factory preassembled for quick, easy installation. Less mast and 300-ohm twin line. Shpg. wt., 10 lbs. 78 CU 500, List, \$24.95. NET.....14.67

★ ★ ★ MODEL TRI206—40 Miles. Similar to Model TRI212 above, but has 6 wide-spaced and phased "cardioid" dipoles working off an oversized reflector. Provides an average signal gain of 12 db. Less mast and 300-ohm twin line. Shpg. wt., 7 lbs. 78 CU 501, List, \$11.95. NET.....7.03



Up To  
60 Miles

4-BAY  
UHF-VHF



Up To  
85 Miles

12-BAY  
UHF

## UHF AND VHF-UHF ANTENNAS

★ ★ ★ UN105. UHF-VHF antenna for channels 2 to 83, 4-bay for extra gain and signal sensitivity for semi-fringe areas. Features Redwood crossarms. Pre-assembled. Simply swing sections open and tighten. Has anti-rust, anti-corrosion, all-aluminum elements. Less 300-ohm line and mast. Shpg. wt., 5½ lbs. 92 CU 107, List, \$11.60. NET.....6.82

★ ★ ★ MODEL UHF212. 12-bay, UHF bowtie antenna for fringe area reception. Designed to provide extremely high gain over all channels. Screen is engineered for efficient shielding of conical sections. Provides sharp directivity; greatly reduces interference. Pre-assembled for quick, easy installation. Less mast and 300-ohm twin line. Shpg. wt., 10 lbs. 92 CU 551, List, \$33.50. NET.....19.70

★ ★ ★ MODEL UHF208—60 Miles. 8-bay, UHF bowtie antenna for fringe area reception. Wire mesh reflector and matched elements provide optimum gain on all channels. Rigidly constructed; solid aluminum rods and galvanized screen. Pre-assembled for simplified, rapid installation. Less mast and 300-ohm twin line. Shpg. wt., 8 lbs. 92 CU 550, List, \$19.95. NET.....11.73

★ ★ ★ MODEL UHF202—40 Miles. 4-bay UHF bowtie antenna for suburban areas. Gives high gain on all channels—reduces snow and reflections. "Custom-Channel" calibrator peaks individual channels for best response. Precision spaced elements and phasing harness for maximum gain. Galvanized grid wire screen with ½" O.D. solid aluminum rods. Preassembled for fast, convenient installation. Less mast and twin line. Shpg. wt., 6 lbs. 92 CU 151, List, \$8.95. NET.....5.26

★ ★ ★ MODEL UHF410—40 Miles. UHF corner reflector provides excellent suburban reception. High front-to-back and front-to-side ratio minimizes co-channel and adjacent channel interference and ends "ghosts". The twin-angled multi-grid reflectors trap maximum signal strength and reflect it back onto the bowtie dipole with greatly increased intensity. Features extremely sharp directivity. Rigidly constructed of solid, lightweight, corrosion-resistant aluminum. Flips open for quick, easy installation. Less mast and 300-ohm twin line. Shpg. wt., 6 lbs. 92 CX 152, List, \$8.25. NET.....4.85

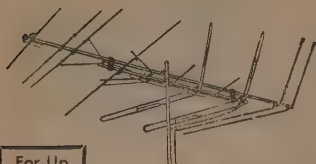


Up To  
40 Miles

TV ANTENNA SYSTEMS  
AVAILABLE ON ALLIED'S  
CREDIT FUND PLAN

# Amphenol, Taco, Telco, RMS TV Antennas

## NEW TACO T-BIRD TV ANTENNAS



For Up To 150 Miles

G-707-8  
★★★★

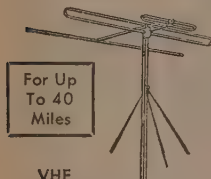
★★★★MODEL G707-8. Gold anodized "T-Bird" TV antenna. Eight specially designed elements provide up to 12½ db signal gain on channels 2 to 13. Gold anodized surface assures maximum protection against corrosion and weathering. 12½ lbs.  
78 CZ 550. List, \$61.95. NET.....36.43

★★★★MODEL 707-8—150 Miles. Same antenna described above, but non-anodized. Shpg. wt., 12½ lbs.  
78 CZ 551. List, \$54.95. NET.....32.31

★★★★MODEL G707-5—85 Miles. Gold anodized "T-Bird" antenna. Same as Model G707-8 shown above, but has 5 elements and single crossarm. Shpg. wt., 6½ lbs.  
78 CZ 552. List, \$31.95. NET.....18.79

★★★★MODEL 707-5—85 Miles. Same as G707-5 above, but non-anodized. Wt., 6½ lbs.  
78 CZ 553. List, \$26.95. NET.....15.85

## AMPHENOL TV ANTENNAS



For Up To 40 Miles

VHF

★114-0 05

Time-Proven, High-Efficiency Design

Reduce "Ghosts" and Stray Reflections

Sturdy Aluminum Elements—Steel Masts

### INLINE VHF ANTENNA

★MODEL 114-005. For all VHF channels. Ideal for metropolitan and suburban use. Unusually broad frequency response. Uni-directional pattern and excellent impedance match on high and low-bands reduces stray, reflections and "ghosts." Antenna elements constructed of sturdy aluminum tubing. Mast is heavy-gauge steel. Includes one 5'x½" mast, guy ring, mounting bracket, hardware, stand-off insulators, 75 feet of high-quality 300-ohm twin line. Shpg. wt., 7 lbs. *Truck or Express only.*  
97 CU 438. List, \$21.85. NET.....13.13

★MODEL 114-009. Same antenna as 114-005 above but less 300-ohm twin line. Shpg. wt., 6 lbs. *Truck or Express only.*  
97 CU 439. List, \$19.25. NET.....11.55

★MODEL 114-040. Same as 114-005 above, less mast, twin line and stand-off insulators. Shpg. wt., 5 lbs. *Truck or Express.*  
97 CU 492. List, \$15.75. NET.....9.45

### INLINE STACKED ARRAY

★MODEL 114-314—60 Miles. Ruggedly constructed, 2-bay stacked antenna. Consists of a top and bottom bay properly phased for all VHF channels. Each bay consists of 2 folded dipoles and a low-band reflector element, and is similar in construction and performance to Model 114-005 inline antenna shown above. Low-band folded dipole of each bay acts as reflector for high-band dipole when receiving channels 7-13. Less 300-ohm line and 10-ft. mast. Shpg. wt., 12 lbs. *Truck or Express.*  
97 CU 454. List, \$32.50. NET.....19.50

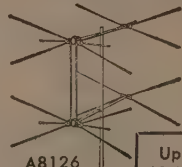
- New Design Provides Increased Sensitivity, Sharp Directivity
- Ideal for Black and White or Color TV

Newly designed "T-Bird" TV antennas provide extremely high gain, sharp directivity, and high front-to-back ratios. Provide up to 12½ db gain for bright, clear TV pictures. Minimize interference and permit exceptionally good fringe area reception on channels 2 to 13. Extremely flat response across all channels assures full picture definition—makes antenna ideal for use with color TV. Models G707-8 and 707-8 have double trussed crossarm for extra mechanical strength. Less mast and 300-ohm twinline.

★★★★MODEL G707-6—125 Miles. Gold anodized "T-Bird" antenna. Same as Model G707-8 (left) but has 6 elements and single crossarm construction. Gold anodized surface protects antenna against weathering and corrosion. Shpg. wt., 9 lbs.  
78 CZ 554. List, \$43.95. NET.....25.84

★★★★MODEL 707-6—125 Miles. Same antenna described above, but has non-anodized surface. Shpg. wt., 9 lbs.  
78 CZ 555. List, \$37.95. NET.....22.77

## TELCO "IMPERIAL" VHF TV ANTENNAS



A8126

Up to 60 Miles



Barrier Disc Insulator

- Excellent Directivity and Sensitivity
- Resist Salt, Moisture, Soot, Etc.
- Provide High Gain on All VHF Channels

★★ MODEL A8126. Extremely popular "Imperial" 2-bay VHF conical antenna for all TV channels. Advanced design provides very high gain on all channels in fringe and high signal strength areas under all kinds of weather conditions. Has excellent directivity and sensitivity—provides unusually clear picture reception. Employs weather-proofed terminal structure.

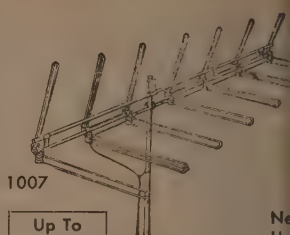
The "Imperial" can be used in sea coast or heavy industrial areas. Features a barrier disc type insulator with 2" of air space between the terminals. Salt, moisture, soot, corrosion, etc., will not affect the gain or picture quality. Contact surfaces and terminals will never rust or oxidize. Stainless steel, front-end hardware prevents signal losses through corrosion.

Front-end elements are pre-assembled to holding plates which fasten to insulator with one wing nut. Just fold elements in place and fasten wing nut. Less twin line and mast. Shpg. wt., 8 lbs.  
98 CU 404. NET.....10.73

★MODEL A8124—40 MILES. Same as above, but single-bay. Shpg. wt., 4 lbs.  
98 CU 405. NET.....5.06

MODEL A8126-1 STACKING KIT. For use in stacking two Telco Model A8124 single-bay antennas, above. Comes complete with all hardware. Shpg. wt., 1 lb.  
98 CX 406. NET.....88c

## RMS TV ANTENNA



1007

Up To 125 Miles

★★★★MODEL 1007. New, "Wavebooster" VHF antenna utilizes 7 folded dipole elements for increased signal gain and good mechanical stability. Provides excellent color and black and white reception on channels from 2 to 13. Elements are signed for decreasing impedance from point to front end—each element receives an equal amount of current for maximum total gain. High front-to-back ratio, close line impedance match provides clear pictures—very effective in minimizing ghosts and interference.

Has "snap-lock" design for quick, easy installation. Unique, "quadro-grip" U assembly secures antenna to mast 4 times, prevents turning and slipping. Less 300-ohm line. Shpg. wt., 16 lbs.  
78 CZ 546. List, \$44.30. NET.....26.43

★★★★MODEL 1007S—150 Miles. Copy of 2 of above Model 1007 antennas stacked together for greater gain. Shpg. wt., 32 lbs.  
78 CZ 547. List, \$90.00. NET.....51.85

★★★★MODEL 1005—85 Miles. Similar to 1007 above, but 5 dipole elements.  
78 CZ 548. List, \$31.40. NET.....18.79

## TACO UHF TRANSLATOR ANTENNA



3088T STACKED

3088T

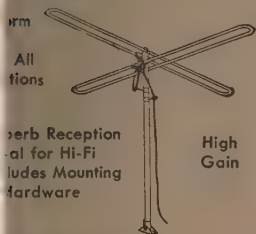
MODEL 3088T. NEW from Taco—a horizontally stacked, eight-bay bow-tie antenna designed for ETV and translator frequencies. Large reflector screen provides increased capture area and front-to-back ratio. Reinforced screen edge eliminates flexing. Provides 18.5 db gain on translator channels 70 to 83. With stacking line, hardware instructions. Wt., 7 lbs.  
78 CZ 556. NET.....11.55

MODEL 3088T STACKED. Two Model 3088T eight-bay UHF translator antennas, as described above, but stacked vertically for additional 3 to 5-db increase in signal gain. Total gain is from 21.5 to 23.5 db. Shpg. wt., 14 lbs.  
78 CZ 557. NET.....24.43



## FINNEY FM ANTENNAS

### NIGHT ALL-DIRECTION FM ANTENNA KIT



All  
tions

perb Reception  
al for Hi-Fi  
cludes Mounting  
ardware

High  
Gain

quality FM antenna kit at a money-  
price. Two folded dipoles mounted  
at angles to each other provide uni-  
gain from all directions. Eliminates  
for rotator. Excellent response across  
FM band. Elements constructed of  
anv walled, extruded aluminum for  
um weather resistance.

plete kit includes: rugged 5-ft. mast;  
et of 300-ohm twin line; sturdy, uni-  
mounting base; 1 mast stand-off in-  
sor; and other necessary hardware—  
e low price. Instructions included for  
assembly. Shpg. wt., 7¼ lbs.  
U 583. NET.....6.17

### TACO FM ANTENNAS



EL 644B 6-ELEMENT FM ANTENNA  
-bay, 6-element yagi antenna for top  
performance in weak signal areas. Uni-  
formal design. High F/B ratio. Up to 9  
db gain. Completely assembled. Elements  
out—lock in place. Less mast, 300-  
ohm twin line. Shpg. wt., 7 lbs.  
Z 546. List, \$20.20. NET.....11.88

EL 610 10-ELEMENT FM ANTENNA  
-bay, 10-element yagi antenna for  
and long-distance FM reception.  
0 db gain. Sharp directivity—extreme-  
ly F/B ratio. Completely assembled for  
ified installation. Arms swing out-  
in place. Less mast, 300-ohm twin line.  
wt., 10½ lbs.  
Z 547. List, \$29.25. NET.....17.20

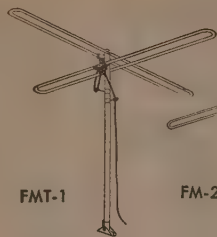
EL 646 STACKING KIT. Phasing line, in-  
sors, hardware. Permits stacking two  
or 610 antennas. Wt., 1 lb.  
X 548. List, \$2.65. NET.....1.56

### MODEL 626A FM AD-A-KIT"

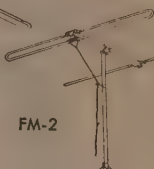
nts On Your Present  
Antenna Mast  
Be Used in Attic

gold-anodized "S"  
unit that provides ex-  
t reception up to 25  
from FM stations—  
less of direction.  
ty installed in minutes;  
nts on any existing TV  
Compactness makes it  
net for attic installations. Supplied com-  
with 50-ft. of 300-ohm lead-in, wood-  
and mast-type standoffs. 3½ lbs.  
X 520. List, \$8.95. NET.....5.26

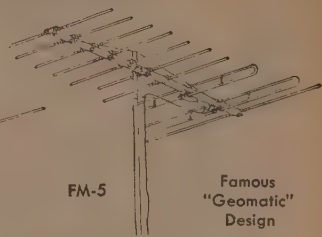
EL G626A ANTENNA ONLY. Includes  
antenna only; less accessories. Shpg.  
8 lbs.  
X 579. List, \$6.95. NET.....4.09



FMT-1



FM-2



FM-5

Famous  
"Geomatic"  
Design

### MODEL FMT-1 ANTENNA KIT

- Greatly Improves FM Reception
- Universal Base For Easy Mounting

All-direction FM antenna kit. Provides un-  
usually fine reception over the entire FM  
band, 88 to 108 mc. Incorporates two stur-  
dy, well designed folded dipoles mounted at  
right angles to each other for complete 360°  
coverage without rotation. Dipoles are  
matched with a special quarter wave phas-  
ing stub for optimum match to 300-ohm line.  
Simplified installation. Each folded dipole  
attaches easily to pre-drilled 5-foot mast.  
Universal base will mount on any surface  
from horizontal flat roof to vertical side wall  
and allow mast to be adjusted to vertical  
position. Kit includes 50-ft. 300-ohm trans-  
mission line; 5-ft. mast; base; 2 mast stand-  
off insulators; and 3 screw-eye stand-off  
insulators. Shpg. wt., 6 lbs.  
92 CU 278. List, \$14.50. NET.....8.53

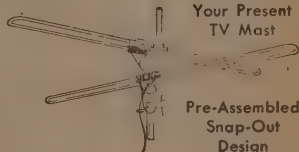
### MODEL FM-2 ANTENNA KIT

A particularly fine choice for use where all  
signals are received from approximately the  
same direction. Employs an efficient FM  
dipole plus a reflector element to achieve  
high signal gain and good directivity. Gain  
is 3.5 db. Features rugged, weather-resist-  
ant construction throughout. All-aluminum  
boom and elements are completely pre-  
assembled with "snap-out," self-aligning  
aluminum brackets. 5-ft. mast, base, 50-ft.  
twin line, 2 mast-type standoffs, and 3  
screw-eye standoffs. Wt., 6½ lbs.  
92 CU 279. List, \$14.50. NET.....8.53

FMS STACKING KIT. For stacking two FM-2, FM-3, FM-4 or FM-5 antennas. 1 lb.  
92 CX 597. List, \$3.35. NET.....1.97

### MODEL FMT-A FM ANTENNA KIT

Enjoy the finest FM reception your tuner or FM  
radio can deliver with this all-directional antenna  
kit. Features a ruggedly constructed, pre-as-  
sembled turnstile-type antenna that requires no ro-  
tation. Supplied with special bracket for simple  
installation on your present TV mast—there's no  
need for an additional mast installation. The two  
antenna elements are accurately matched with a  
special quarter-wave phasing stub for optimum  
gain and all-direction radiation pick-up pattern.  
Provides strong reception over the entire FM  
band. Kit includes an FM antenna, 50-ft. of twin  
line, two mast insulators, 3 screw-in insulators,  
plus mounting bracket. Shpg. wt., 6 lbs.  
91 CX 330. List, \$14.50. NET.....8.53

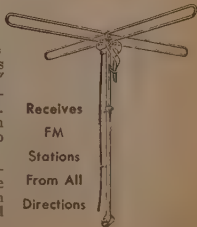


Mounts On  
Your Present  
TV Mast

Pre-Assembled  
Snap-Out  
Design

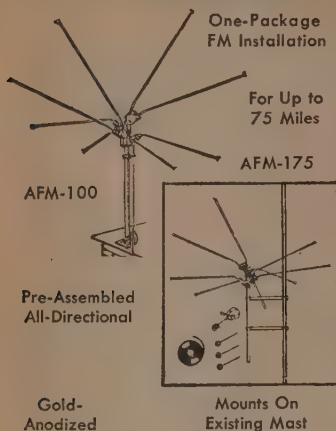
### AMPHENOL 114-010 FM ANTENNA KIT

Amphenol's highly popular, all-directional FM dipole antenna.  
Provides gain equal to that of an efficient folded dipole across  
the entire FM band, 88 to 108 mc. Widely used where stations  
are received from many different directions. Elements are of ¾"  
O.D. aluminum tubing to resist weathering and corrosion. An-  
tenna is ruggedly constructed to withstand high winds and icing.  
Employs 2 folded dipoles mounted at right angles to achieve an  
essentially circular pickup pattern. Quarter wave phasing stub  
precisely matches both elements to 300-ohm twin line.  
Supplied complete with full set of accessories for easy, time-  
saving installation. Includes convenient, universal, swivel-type  
mounting base bracket for simplified mounting of antenna on  
flat or sloping roofs. 75 feet of quality 300-ohm twin line, all  
hardware, and sturdy 5-ft.x¾" O.D. mast. Wt., 7 lbs.  
97 CU 434. List, \$18.25. NET.....10.95



Receives  
FM  
Stations  
From All  
Directions

## JFD FM ANTENNA KITS



**AFM-100—75 Miles.** A sensitive, all-direction FM antenna kit—at an exceptionally low price. Turnstile design insures optimum signal strength from stations in all directions. Gold-anodized aluminum weather-resistant construction. Pre-assembled for easy installation. Kit includes antenna, 5' aluminum mast, steel guy ring, universal base mount for wall or roof, 4 standoffs, 50 feet of 300-ohm line, all hardware. Shpg. wt., 5½ lbs.

91 CX 987. List, \$15.95. NET...9.38

**AFM-175—75 Miles.** As above, but for mounting on existing TV antenna mast. With gold-anodized supporting mast, 2 sets of U bolts, brackets, 50' of 300-ohm twin line, 4 stand-offs. Shpg. wt., 4 lbs.

91 CX 219. List, \$13.95. NET...8.20

## FM TWINLINE ANTENNA



Perfect where an outdoor FM antenna installation is not feasible

Low-cost, folded dipole type. Ideal as concealed indoor antenna under rug, behind cabinet—in any out-of-the-way place. With 6-ft. 300-ohm lead-in wire. Shpg. wt., 6'oz.

92 C 019. NET...99c

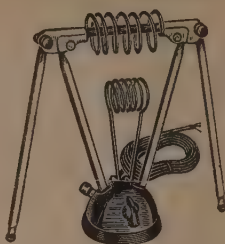
## KNIGHT VHF ANTENNA

Popular indoor antenna for FM and TV channels 2 to 13. Efficient, time-proven "rabbit ears" adjust easily for clearest picture. Tip-proof porcelain base is felt padded. With 3-ft., 300-ohm twin line. Shpg. wt., 2 lbs.

92 CX 025. NET...1.24



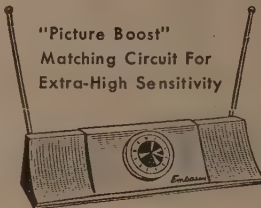
## K-G DELTA-BEAM UHF-VHF ANTENNA



An efficient all-channel indoor antenna providing excellent reception on VHF channels 2 and UHF channels 14-83. Six-position switch matches line impedance, tuning antenna match receiver input. Also has highly effective "ghost" chasing switch. Dipoles are easily adjusted to the length and angle which provide the best picture. Has tip-proof brown baked base. Size: 9" high; each arm extends to 6 feet. Supplied complete with 6 feet of 300-ohm line. Shpg. wt., 2½ lbs.

92 C 013. NET...5.

"Picture Boost"  
Matching Circuit For  
Extra-High Sensitivity



## ALL-CHANNEL ANTENNAS

- 12-Position Switch
- 4-Section Brass Arms
- Increased Gain
- Beautiful Finishes

"Radar Loop" Design



## "EMBASSY" VHF ANTENNAS

Extremely popular indoor TV antenna. Features a patented internal circuit for increased gain, and provides excellent reception in metropolitan areas. Exclusive 12-position switch assures sharp, clear pictures on all channels from 2 to 13—eliminates annoying ghosts and interference. Four-section, all-brass telescoping arms extend to 102"; provide better reception in unfavorable locations. Complete with 6 feet of 300-ohm twin line. Size, 14x4x3½". Shpg. wt., 2½ lbs.

92 CX 066. Mahogany finish.

92 CX 574. Maple Walnut finish.

92 CX 067. Ebony finish.

92 CX 068. Ivory finish.

List Each, \$19.95. NET EACH...9.95

## "REMBRANDT" UHF-VHF ANTENNA

Indoor antenna featuring "radar loop" design plus all-angle telescoping dipoles. Delivers clear all-channel reception. Convenient 12-position switch permits adjustment of antenna for maximum efficiency, highly effective in eliminating ghosts and interference. "Radar" loops inductively coupled to the telescoping dipoles. Dipoles and loops adjustable for best reception. Luminous numerals are easily visible in dark. Wide rectangular base prevents tipping. With 6-ft. of 300-ohm twin lead. Shpg. wt., 3½ lbs.

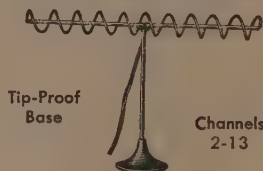
92 CX 062. Mahogany finish.

92 CX 064. Ebony finish.

92 CX 065. Ivory finish.

List Each, \$16.95. NET EACH...9.95

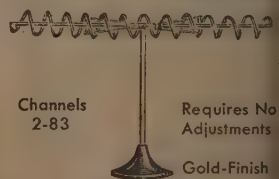
## TRICRAFT ANTENNA KIT



Highly efficient VHF indoor antenna for bringing in sharp, clear pictures in metropolitan areas. Carefully engineered helix coil, rigidly mounted on sturdy, mahogany plastic base. For all channels from 2-13. Minimizes "snow," "ghosts," and interference. Requires no adjustment. Tip-proof base. Height, 14"; width (span), 32". Easy to assemble. With 6-ft. length of 300-ohm twin lead. Shpg. wt., 2 lbs.

92 CX 126. NET...4.41

## HI-LO UHF-VHF ANTENNA



**MODEL 202. UHF-VHF SPIRAL-TENN**  
Popular indoor TV antenna for excellent gain on UHF-VHF bands. Minimizes "ghosts" and interference. Gold finish. Tip-proof base. Height 14"; width (span), 32". With 6-foot length of 300-ohm twin lead attached. Shpg. wt., 2 lbs.

98 CX 449. NET...5.8

**MODEL 101. VHF.** Similar to Model 202 above, but VHF only.

97 CX 391. NET...5.2

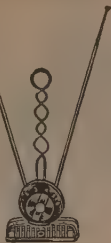


## EXACT REPLACEMENT TV ANTENNAS FOR PORTABLE TV SETS

For Admiral, Emerson, G.E., Philco, Magnavox, Motorola, RCA, Silvertone, Westinghouse and Zenith sets, below. Av. wt.,  $\frac{3}{4}$  lb. Allied can supply most replacement antennas for portable TV sets not listed on this page. Give Make and Model No. of set.

### MODEL TA-147 VHF-UHF ANTENNA

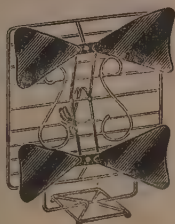
ous indoor  
nna featur-  
t styling and  
tanding per-  
nance. Has  
signal gain;  
imizes inter-  
ference and  
ghosts. Em-  
ploys 6-posi-  
tioning im-  
pedance  
switching;  
elements ad-  
just-  
able for max-  
imum efficiency  
on  
signal being received. Adjustable,  
extension brass dipoles easily posi-  
tioned for clearest picture; extend  
9". Base is weighted to prevent  
bumping. Has felt pad; will not mar  
table. Supplied complete with 300-  
ohm twin line and handy spade lug  
terminals for quick attachment to  
TV set. Shpg. wt., 2 lbs.



NET 124. NET.....2.70

### MODEL TA-149 UHF ANTENNA

fully con-  
structed indoor  
antenna for ex-  
cellent reception  
channels 14  
through 83. Twin-  
tie dipoles  
on screen re-  
tractor for su-  
perior picture  
quality. Anten-  
na attractively  
finished in gold anodizing and jet-  
black satin enamel. Tip-proof base  
with four legs. Includes 300-ohm  
twin lead, tipped with spade lugs  
for quick, easy connection to an-  
tenna terminals of TV set. Overall  
size 12x6". Shpg. wt., 2 lbs.

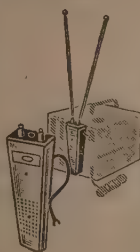


NET 598. NET.....3.43

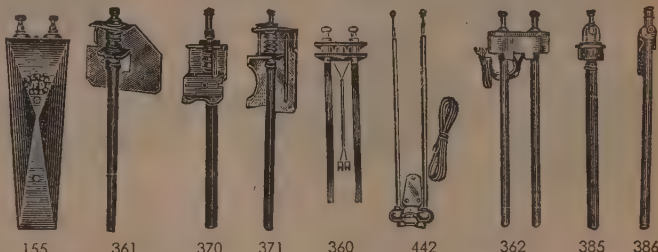
### G-C TELCO

#### "HIDE-A-WAY" VHF ANTENNA

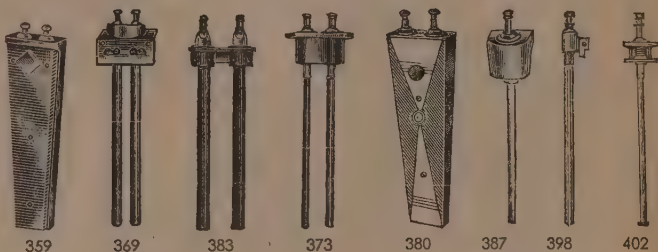
compact, plastic-  
enclosed antenna.  
Provides excellent  
channel metro-  
politan-area re-  
ception. Telescope  
elements are  
made of durable,  
nickel-plated brass.  
Swivel mounting.  
Elements  
mounted on  
telescopic joints;  
rotate 360° for ex-  
cellent signal pick-  
up from any direction. Case is com-  
pletely concealed behind TV set—  
you see only the elements. 5-sect.  
telescope elements extend to 37".  
Retract out of sight when not in use.  
Has spade-lug-tipped 300-ohm twin  
line. Shpg. wt., 1 lb.



NET 029. NET.....1.71



155 361 370 371 360 442 362 363 385 386



359 369 383 373 380 387 398 402

### ADMIRAL

| Stock No. | JFD Type | Orig. Mfg. Part No.          | NET EACH |
|-----------|----------|------------------------------|----------|
| 91 C 374  | TA155    | For all Admiral 1956-57 sets | 2.54     |
| 78 C 521  | TA361    | 69C220-1 and 69C220-5        | 3.18     |
| 78 C 522  | TA370    | 69C238-1                     | 3.67     |
| 78 C 523  | TA371    | 69C234-1                     | 3.67     |

### EMERSON

|          |       |                                |      |
|----------|-------|--------------------------------|------|
| 91 C 376 | TA360 | 471090                         | 4.50 |
| 91 C 377 | TA442 | 471003; 471069; 471076; 471146 | 2.16 |

### GENERAL ELECTRIC

|          |       |                                     |      |
|----------|-------|-------------------------------------|------|
| 91 C 377 | TA442 | For 1956-57 sets sold less antennas | 2.16 |
| 91 C 376 | TA360 | P1251438-1                          | 4.50 |
| 78 C 524 | TA362 | P1251590-2                          | 5.73 |
| 78 C 531 | TA363 | P1251590-1                          | 5.73 |
| 78 C 541 | TA387 | WT83X16-19-28-29                    | 4.50 |

### PHILCO

|          |       |                        |      |
|----------|-------|------------------------|------|
| 78 C 525 | TA385 | 76-10734-3; 76-10734-5 | 3.67 |
| 78 C 526 | TA386 | 76-11538-1             | 3.18 |

### JFD "MERLIN" VHF-UHF ANTENNAS

Efficient indoor antenna provides excellent reception. Mounts with only 12 pos. selector switch and elements in view. 4-sect. elements have 360° swivel bases to permit positioning for best reception. Elements extend to 38"; telescope conveniently out of sight. Lustrous plastic construction blends well with styling of any TV set. Attaches easily to back of set with screws supplied. Includes 300-ohm twin line with spade lugs. Shpg. wt., 1  $\frac{1}{2}$  lbs.

92 C 572. Model L 20. Mahogany. NET EACH.....5.30  
92 C 573. Model L10. Ivory. NET EACH.....3.67

### MAGNAVOX

| Stock No. | JFD Type | Orig. Mfg. Part No.                    | NET EACH |
|-----------|----------|----------------------------------------|----------|
| 91 C 375  | TA359    | 1957-58 17" sets 1959 17" and 21" sets | 2.65     |

### MOTOROLA

|          |       |                   |      |
|----------|-------|-------------------|------|
| 91 C 375 | TA359 | 1V746989 and TK76 | 2.65 |
|----------|-------|-------------------|------|

### RCA

|          |       |                  |      |
|----------|-------|------------------|------|
| 91 C 375 | TA359 | 973447           | 2.65 |
| 78 C 527 | TA369 | 962344-1 thru 10 | 4.85 |
| 78 C 542 | TA398 | 109-139          | 2.86 |

### SILVERTONE-SEARS

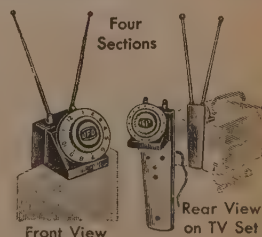
|          |       |                              |      |
|----------|-------|------------------------------|------|
| 91 C 375 | TA359 | 82-116-0                     | 2.65 |
| 91 C 376 | TA360 | 82-127-0                     | 4.50 |
| 78 C 528 | TA383 | 82-137-0; 82-139-0; 82-164-0 | 5.31 |

### WESTINGHOUSE

|          |       |                    |      |
|----------|-------|--------------------|------|
| 91 C 374 | TA155 | 1956 and 1957 sets | 2.54 |
|----------|-------|--------------------|------|

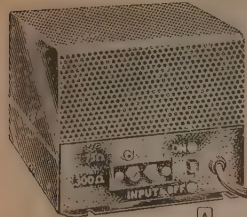
### ZENITH

|          |       |                   |      |
|----------|-------|-------------------|------|
| 78 C 529 | TA373 | S46769            | 4.85 |
| 78 C 530 | TA380 | S41260 and S43280 | 3.67 |
| 78 C 543 | TA402 | S50123            | 4.09 |

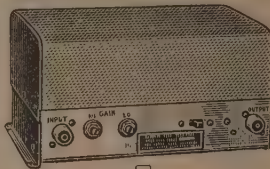


Front View

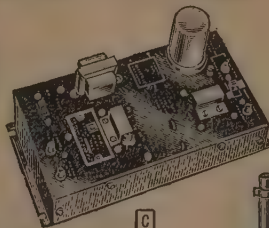
Rear View on TV Set



A



B



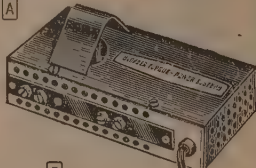
C



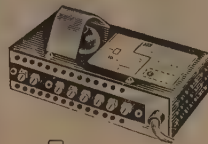
D



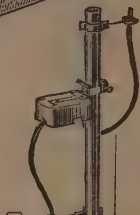
E



F



G



H



I

### INDOOR BOOSTERS AND AMPLIFIERS

#### MODEL HAB VHF AMPLIFIER

**A** Efficient, high-gain, VHF television and FM amplifier. Provides more than 25 db gain on all channels from 2 to 13, and on the FM band. Ideal as a preamplifier for home or small master TV antenna systems. Permits brighter, sharper pictures and increases number of TV stations set can pick up. Uses one 6DJ8 and two 6EJ7 tubes to provide highest possible signal-to-noise ratio with maximum reliability and long life. Features stripless 300-ohm terminals and 75-ohm solderless coax connectors for input and output—can use 300-ohm twin line or 72-ohm coaxial cable.

In compact, sturdy, ventilated metal cabinet. 6x5 $\frac{1}{4}$ x4 $\frac{3}{8}$ ". For 110-120 v., 60 cycle AC. Shpg. wt., 4 $\frac{1}{2}$  lbs.

93 C 078. List, \$71.95. NET.....42.34

#### DA8-B VHF DISTRIBUTION SYSTEM

**D** A versatile combination booster and isolation-distribution system for use with up to 8 TV sets. Features exclusive low-noise all-triode circuitry. Ideal for use in small apartment buildings, hotels, motels, etc. Permits operating up to 8 TV sets from a single antenna. 22 db minimum isolation between outputs. Provides 10 db gain to each TV set to assure full-strength signals. System overload is prevented through a 10-1 gain control range. Has inputs for 75- or 300-ohm line. Eight outputs accommodate 75- or 300-ohm line; one of these outputs may be used to feed another DA8-B to permit hook-up of additional TV sets. Unit includes power supply, terminating resistors and grounding clamp. Screw terminals permit fast installation. 5x9x5 $\frac{1}{2}$ ". For 110-120 v., 60 cycle AC. Shpg. wt., 6 lbs.

98 C 220. List, \$94.50. NET.....57.33

#### MLA-B VHF TV SIGNAL AMPLIFIER

**B** The "Masterline" VHF TV signal amplifier. Provides an effective signal boost of not less than 40 db. Assures maximum output of 2.5 volts rms on each band—flat within 2 db. May be installed in coax line going to single TV set, or used with antenna distribution system in installations feeding 100 or more TV sets from a single antenna. Units may be cascaded when extremely long transmission lines are used.

Offers maximum fidelity for color TV as well as black-and-white sets. Gain is adjustable on high and low bands. Response flat within  $\pm 5$  db over any 6 mc channel.

Cascade circuits assure minimum noise level. 75 ohm coax input and output connectors. 7 tubes. 9x6x5 $\frac{1}{2}$ " deep. Perforated gray metal cabinet. For 110-120 volts, 60 cycle AC. Shpg. wt., 9 lbs.

92 C 090. List, \$149.95. NET.....88.15

#### BT-3 VHF TV-FM AMPLIFIER

**C** All-transistor VHF TV-FM amplifier. Broadband circuit design for use with color as well as black-and-white TV. High-gain, low-noise amplification makes it ideal as preamp in larger master systems, or as amplifier in smaller systems. Two inputs permit separate high and low band antennas; also has combined high and low band inputs. Has monitor jack for system checking without interrupting service. Solderless 75-ohm coax connectors. 15-18 db low-band gain; 19 db on high band. Output: 0.7 v. with 1% cross modulation (total of both bands). 4x9x4 $\frac{1}{2}$ ". For 110-120 v., 60 cycle AC; also has input socket for 22 volt battery supply. Shpg. wt., 2 $\frac{3}{4}$  lbs.

93 C 358. List, \$79.95. NET.....48.93

### MAST-MOUNTED TV-FM BOOSTER-AMPLIFIERS

#### MODEL AB-2 VHF BOOSTER

**G** Antenna mounting booster amplifiers for VHF stations (channels 2-13) up to 10 db. Weatherproof amplifier may be located up to 500 feet from remote control at TV receiver. Installation at antenna permits amplification of signal with no increase in line noise picked up on lead in. Power is delivered to booster by 300-ohm twin line—separate line required. 6DJ8 provides highest possible signal-to-noise ratio with maximum reliability. Operation is automatic—booster turns on and off at remote control 300-ohm input and output. Easy to install. Amplifier, 6 $\frac{1}{2}$ x3 $\frac{1}{2}$ x4 $\frac{3}{8}$ ". Remote control, 5x2 $\frac{1}{2}$ x3 $\frac{3}{8}$ ". For 110-120 volts, 50-60 cycle AC. Shpg. wt., 7 lbs.

92 C 545. List, \$53.95. NET.....31.75

#### NEW AB-3 DELUXE TV-FM AMPLIFIER

**G** Provides 25 db gain on VHF TV and FM bands. New design lets you locate amplifier a full mile from power supply (when open lead is used). 300-ohm input, 300 and 75-ohm outputs. Automatic on-off control. Lead-in supplies power to amplifier. Amp., 7 $\frac{1}{2}$ x5 $\frac{1}{2}$ x5 $\frac{1}{4}$ "; power supply, 6 $\frac{1}{2}$ x3 $\frac{1}{2}$ x4 $\frac{1}{4}$ ". For 110-120 VAC. 7 lbs.

93 C 359. List, \$104.95. NET.....63.25

#### NEW AB-4 TRANSISTORIZED BOOSTER

**H** All-transistor VHF TV-FM booster coupler. Features high signal-to-noise ratio and extremely light, compact design—must need be no stronger than required to support antenna alone. Maintenance is virtually eliminated—no tube to burn out. Remote power supply (Fig. U) runs on 4 low-cost flashlight cells; also serves as 4-set coupler—provides isolation and 300-ohm match for up to 4 TV or FM sets. Stripless terminals. Lead-in supplies DC to amplifier. Amp., 1 $\frac{1}{2}$ x2 $\frac{1}{2}$ x3 $\frac{1}{2}$ "; supply, 1 $\frac{1}{2}$ x3 $\frac{1}{2}$ x7 $\frac{1}{4}$ ". Less batteries. 7 $\frac{1}{2}$  lbs.

71 C 819. List, \$29.95. NET.....18.62

#### TV CABLE TAPOFF CONNECTORS

Model MT-11 TV Cable Tapoff. (Not illus.) Weatherproof, spliceless tap for use with RG-11/U cable. Choice of 12, 17 or 23 db isolation. Complete with installation tool. Has 75-ohm coax output. 6 oz.

93 C 112. List, \$4.95. NET.....2.89

Model P-595 Male Connector. (Not illus.) For use with "Masterline" Model MLA-B signal amplifier. Fits RG-59/U cable. 3 oz.

51 C 113. List, \$1.55. NET EACH.....98

Model P-115 Connector. As above, but for RG-11/U coax cable.

51 C 114. List, \$1.55. NET EACH.....98

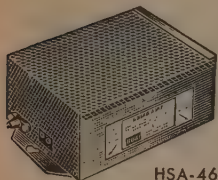


### Choice of Three Handsome Control Units



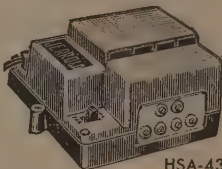
# Jerrold TV-FM Equipment—C-D Rotators

## JERROLD 300-OHM HOME TV-FM DISTRIBUTION SYSTEMS



HSA-46

You can play up to 5 sets simultaneously in your home—on a single antenna—using a combination of the easy-to-install components below. You'll appreciate the improve-



HSA-43

ment in the TV and FM signals you receive, and you'll enjoy the simplicity of installation. Use the illustration below as a guide to selecting your own home distribution system.

### HSA-46 HOME AMPLIFIER

Low-noise, high-output amplifier for distributing TV and FM signals throughout the home from a single antenna. Helps give clear, undistorted reception—will improve quality of up to 2 sets in fringe areas. May be used with inputs up to 30,000 microvolts. Response is flat within  $\pm 1.5$  db. Output VSWR is 1.8:1; gain, over 15 db. Printed circuit makes use of silicon rectifiers for continuous, trouble-free service. Unit includes 2—5BK4 dual triodes. Input and output matched to 300 ohms. Size,  $7\frac{1}{2} \times 5\frac{1}{2} \times 3\frac{1}{4}$ " U.L. Approved. For 110-120 volts, 50-60 cycle AC. Shpg. wt. 3 lbs.

93 C 087. List, \$49.95. NET ..... 33.30

### HSA-43 ANTENNA-MOUNT PREAMP

Allows use of up to 3 TV or FM receivers or combination of both on a single antenna. Provides 5 db gain from two outlets; unity gain at third. Excellent isolation. Serrated washers allow easy connection to twin lead without wire stripping. 1—6DJ8 tube. Input and output impedance, 300 ohms.  $4\frac{1}{2} \times 4\frac{1}{2} \times 3\frac{1}{4}$ " For 110-120 v., 60 cycle AC. Wt.,  $1\frac{1}{2}$  lbs.

93 C 355. List, \$29.95. NET ..... 17.95

FMX FM Range Extender. (Not illus.) Provides 20 db gain across FM band. Size,  $4\frac{1}{2} \times 4\frac{1}{2} \times 3\frac{1}{4}$ " For 110-120 v., 60 cycle AC. Shpg. wt.  $3\frac{1}{4}$  lbs.

93 C 043. NET ..... 18.95

## TYPICAL DISTRIBUTING SYSTEMS



### TV COUPLERS

- For 2, 3 or 4 Sets On One Antenna
- No Wire Stripping
- Extremely-Low Loss



For use in either fringe or metropolitan area, these low-loss couplers feature AC isolation between AC-DC TV sets and antenna. All have 300-ohm impedance. Sturdy, universal mounting case. Fully conceals and protects all connecting lead-in terminals. Types MF-2 and MF-4 are designed for fringe area reception.

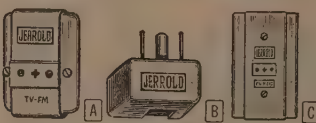
Have highly-efficient, transformer-type impedance matching. Ideal for color TV. Enclosed in weatherproof polystyrene cases. Size,  $4\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{4}$ ". Shpg. wt., 6 oz.

| Stock No. | Mfrs Type | Description             | NET EACH |
|-----------|-----------|-------------------------|----------|
| 71 C 842  | MF-2      | For 2-sets. Ivory.      | 2.70     |
| 71 C 843  | MF-4      | For 3 or 4-sets. Ivory. | 3.45     |

### MODEL TX ANTENNA MIXING NETWORKS

TX (FM) separates FM from TV. TX (H-L) mixes or separates high and low VHF channels; TX (VHF-UHF) mixes or separates VHF and UHF.  $4\frac{1}{2} \times 1\frac{1}{2} \times 1\frac{1}{4}$ ". 4 oz.

### SYSTEM TAPS AND ACCESSORIES



A HS-135. Surface mounting outlet with twin-line plug. Shpg. wt., 2 oz.

93 C 044. NET ..... 1.17

B 93 C 091. HS-24. Twin-line plug. Attaches without stripping. 1 oz. NET ..... 30c

C 93 C 092. HS-140. Flush-mounting outlet with plug. Mounts in wall aperture or in standard plastic outlet box. Allows convenient plug-in connection of TV and FM receivers to master antenna system. Shpg. wt., 4 oz. NET ..... 1.65

93 C 093. HS-36. Strap insulators—to install twin lead indoors. 1 oz. Pkg. of 24 ..... 1.08

93 C 118. TX (FM). NET ..... 3.57

93 C 119. TX (H-L). NET ..... 3.57

93 C 120. TX (VHF-UHF). NET ..... 3.57

### JERROLD TRANSISTOR ANTENNA-MOUNT PREAMP

- Up to 18 db Gain
- Use with TV or FM
- Extremely Low Noise
- Universal Mounting

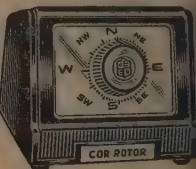
Model APM-101 "Powermate." Versatile TV or FM booster designed for mounting on antenna boom. Lightweight transistor circuit assures highest gain with lowest noise. Weather-proof aluminum housing protects the unit from the elements as well as spurious interfering signals. May also be mounted on antenna mast, or on window or wall. Ready for use with two sets; will boost signal in up to 18 db with MF-4 TV coupler, above. AC-operated remote 5 sets with MF-4 TV coupler, above. AC-operated remote power supply draws only 3 watts—less than an electric clock. Uses 1-2N1742 transistor. Input and output impedance, 300 ohms. Size,  $7\frac{1}{2} \times 7\frac{1}{2} \times 5\frac{1}{2}$ ". For 110-120 volts, 60 cycle AC. Shpg. wt.,  $1\frac{1}{2}$  lbs.

93 C 553. List, \$39.95. No Money Down. NET ..... 26.63

## CORNELL-DUBILIER RADIART TV ANTENNA ROTATORS



AR-22  
TR-2A



Automatic



Compass-Type

### AR-22 ROTATOR WITH AUTOMATIC TYPE CONTROL UNIT

- Set Pointer—Unit Does the Rest
- Sure Magnetic Braking

Popular, fully-automatic rotor for TV antennas weighing up to 150 lbs. Use it for mast, tower or platform mounting. Heavy-duty precision gears hold even large TV arrays steady in high winds. Rotor unit employs two large ball-bearings in two  $6\frac{1}{2}$ " races. Motor reverses instantly—never drags or coasts. Overshoot of desired direction is prevented by dependable magnetic brake. Streamlined, bell-shaped housing is die-cast and heavily reinforced. Weather-sealed and factory lubricated for life. Reversible clamps on rotor unit take masts from  $\frac{1}{2}$ " to 2" outer diameter.

Control unit dial is marked in compass points: N, S, E, W, NW, NE, SW, and SE. Operation is extremely simple: Set control unit pointer to desired direction, and antenna then automatically rotates to this position and stops. Eliminates necessity of watching control unit dial until antenna has rotated to desired direction. Control unit is housed in attractive brown plastic cabinet which is equipped with rubber feet to protect TV set finish. Complete with rotor, control unit and full set of instructions. Requires 4-wire cable (see listing below). For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 14 lbs.

92 CX 150. List, \$45.95. NET ..... 31.31

4 Conductor Cable. For use with above rotor. Shpg. wt., per 100 ft., 3 lbs.

97 T 365. 100-ft. coil. NET ..... 2.78

47 W 576. Over 100'. PER 100' ..... 2.78

### TR-2A ROTATOR WITH ILLUMINATED-COMPASS CONTROL UNIT

Includes heavy-duty rotator, same as that used in AR-22 above, but with illuminated control unit with compass-type dial. As antenna rotates, one of the letters N, E, S, W, on compass dial, lights up to clearly indicate direction antenna is pointing. Bar lever on control unit regulates movement. At the touch of your finger you can start antenna moving, stop it, or make it reverse direction.

Cabinet that houses control unit is built of sturdy, shock-proof plastic. Looks attractive when put atop TV set. Less cable; requires 8-conductor cable listed below. For 110-120 volts, 50-60 cycle AC. Shpg. wt., 16 lbs.

92 CX 463. List, \$37.95. NET ..... 26.41

8-Conductor Cable. For use with TR-2 antenna rotor unit listed above. Handles current for both rotor and illumination circuits. Shpg. wt., per 100 ft., 5 lbs.

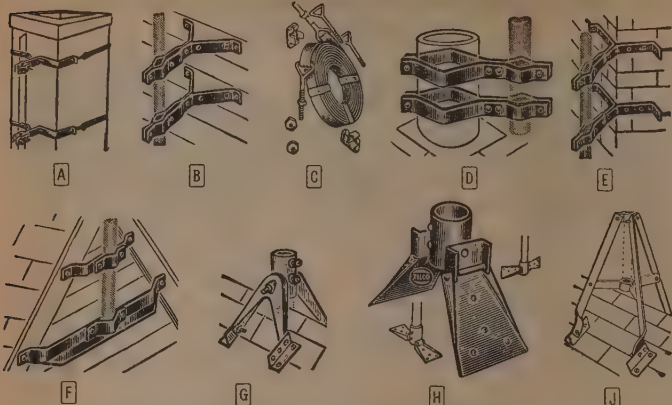
47 T 586. 100-ft. coil. NET ..... 4.20

47 W 593. Over 100'. PER 100' ..... 4.20





# TV Antenna Mounts and Accessories



## TELCO TV ANTENNA MOUNTS

### LOW-COST CHIMNEY MOUNT

**A** Type 9127. With Stainless Steel Strapping. Sturdy chimney bracket. An excellent choice for economy antenna systems. One-piece brackets for quick installation—can be installed in minutes. Brackets are heavy gauge steel, zinc-plated and dichromate-dipped for long life. Brackets securely support antenna mast—even under high wind conditions. Easily adjusted for snug, firm grip. Will support masts up to 1 1/4" dia. With 2—12" straps and hardware. Shpg. wt., 4 lbs.

71 C 557, List, \$3.82. NET.....1.75  
Type 8006. With Galvanized Steel. Same as above, but has galvanized steel strapping.  
97 C 065, List, \$2.65. NET.....1.58

### SNAP-IN WALL MOUNT

**B** Type 8306. Husky brackets for firmly mounting antenna mast to any flat vertical surface. Perfect for buildings with overhanging eaves. Mast snaps in place until nuts can be tightened. Permits one-man antenna installation. Constructed of heavy-gauge steel. Plated for resistance to moisture and harmful fumes. Holds mast 6" from wall. For masts up to 1 1/4" in diameter. Shpg. wt., 2 1/2 lbs.

98 C 481, List, \$2.40. NET.....1.08  
Type 8308. Same as above, but holds mast 8" from wall. Shpg. wt., 4 lbs.  
98 C 482, List, \$3.90. NET.....1.50

### DELUXE SNAP-IN MOUNT

**B** Type 8312. Heavy-duty wall brackets. Support mast from side of building. Legs of brackets are spaced 16" apart to match studs of homes. Side swing prevented by sturdy mounting legs. Vertical support (not shown) eliminates sag. Provides 12" wall clearance. Doubly protected heavy gauge steel, zinc plated and dichromate-dipped for long life. For masts to 1 1/4" dia. Shpg. wt., 5 lbs.

98 C 493, List, \$4.20. NET.....1.67  
Type 8318. Same as above, but provides 18" wall clearance. Shpg. wt., 7 lbs.  
98 C 484, List, \$5.95. NET.....2.34

Type 8324. Same as Type 8312, but provides 24" wall clearance. Shpg. wt., 10 lbs.  
98 C 485, List, \$7.30. NET.....3.58

### CHIMNEY MOUNT REPAIR KIT

**C** Type 8932. Stainless Steel. Stainless steel strapping with eye bolts, nuts and strap clamps. Replaces rusted or broken strapping on all types of chimney mounts. Heavy-gauge strapping for secure support. Stainless steel will resist effects of weather and salt air. Two 12-ft. straps. Shpg. wt., 2 lbs.

71 C 558, List, \$3.55. NET.....1.33

### VENT PIPE MOUNT

**D** Type 8803. Handy vent pipe mount that will clamp on any pipe or vent from 4" to 6" in diameter. Perfect for antenna installations on roofs where chimneys are inaccessible. Simple and easy to use. Made of extra heavy gauge steel for long life. Will support a variety of installations. Handles all masts up to 1 1/4" in diameter. Securely supports antenna mast. Zinc-plated and dichromate-dipped for double protection against rusting; provides exceptionally long life. Shpg. wt., 3 lbs.

98 C 480, List, \$2.70. NET.....1.20

### SNAP-IN CHIMNEY MOUNT

**E** Type 8930. With Stainless Steel Strapping. Excellent mount for quick, dependable installation. Extra-heavy construction. Simply snap mast onto bracket and tighten bolts. Fits masts up to 1 1/4" diameter. Brackets of heavy-gauge steel, zinc-plated and dichromate-dipped for protection against rusting. With two 12-ft. lengths of stainless steel strapping. Shpg. wt., 4 lbs.

97 C 027, List, \$4.70. NET.....1.99  
Type 8610. With Galvanized Steel. As above but has galvanized steel strapping.  
97 C 028, List, \$3.30. NET.....1.55

### EAVE MOUNT

**F** Type 8933. Ruggedly constructed angle-iron brackets, for mounting antenna mast on building eaves. 48" lower bracket straddles building. Top bracket mounts at peak. Weather-proof—zinc plated and dichromate dipped. For masts up to 1 1/4" in diameter. Shpg. wt., 7 lbs.

98 CX 486, List, \$7.15. NET.....3.58

### "NO-GUY" ROOF MOUNT

**G** Type 9060. Steel and cast-iron base for mounting peaked or flat roof. Legs adjust to angle of roof. Support average antenna up to 10 ft. mast without guy wires. For masts to 1 1/2" dia. Shpg. wt., 5 lbs.

98 C 493, List, \$4.75. NET.....2.47

### HINGED-TYPE RIDGE MOUNT

**H** Type 9021. Highly versatile antenna mast support. Adjustable hinged brackets install easily on peaked roofs of any angle, flat roofs and walls. Extra heavy gauge steel using heavy pipe supports. Fits mast to 1 1/2". Zinc plated and gold dichromate dipped for double protection against rust. Shpg. wt., 3 lbs.

91 C 381, List, \$2.35. NET.....1.08

### ANTENNA BASE

**I** Type 9063. Sturdy antenna base. For masts of 10 feet or more and up to 1 1/4" O.D. Eliminates guy wires in the average installation. Set-screws anchor mast and permit orientation. Electro-galvanized; dichromate. 2-ft. high. Shpg. wt., 6 1/2 lbs.

92 CX 040, List, \$7.15. NET.....2.70

Type 9144. As above, but 3 feet high and constructed from 1" electro-galvanized steel tubing. Shpg. wt., 8 1/2 lbs.

92 CX 043, List, \$8.30. NET.....3.24

Type 9148. Same as Model 9144 but 5 feet high. Shpg. wt., 15 lbs.

92 CU 044, List, \$13.90. NET.....6.20

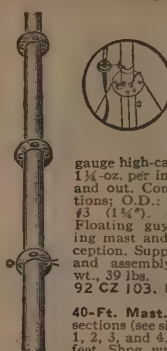
### LOW COST ANTENNA MOUNT



Type 8800-U. Low cost antenna mast mount designed to provide extra secure support for masts up to 1 1/2-inch outside diameter. Heavy 7" bolt and clamp with dual serrated jaws hold mast securely in position. "Extra leg" and reinforcing ribs give added strength. Doubly zinc plated and dichromate dipped for all weather protection. Shpg. wt., 1/2 lb.

91 C 482, List, 66c. NET.....34c

## TELESCOPING TV MASTS



**60-Ft. Mast.** Heavy-duty telescoping mast of high-carbon steel. Ideal for any television array. Designed for exceptionally easy installation. Husky bolts and cotter pins lock each section in place. 18-20 gauge high-carbon steel tubing with 1 1/4-oz. per inch zinc plating inside and out. Consists of 5—10-ft. sections; O.D.'s: #1 (1 1/4"), #2 (1 1/2"), #3 (1 3/4"), #4 (2"), #5 (2 1/4"). Floating guy-ring permits rotating mast and antenna for best reception. Supplied with all hardware and assembly instructions. Shpg. wt., 39 lbs.

92 CZ 103. NET.....13.35

**40-Ft. Mast.** Consists of 4 rugged sections (see sizes listed above); Nos. 1, 2, 3, and 4. Maximum height, 40 feet. Shpg. wt., 29 lbs.

92 CZ 102. NET.....9.78

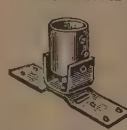
**30-Ft. Mast.** Consists of 3 rugged sections (see sizes listed above); Nos. 1, 2, and 3. Maximum height, 30 feet. Shpg. wt., 21 lbs.

92 CZ 101. NET.....7.04

**20-Ft. Mast.** Consists of 2 sections; Nos. 1 and 2 described above. Height, 20 feet. Shpg. wt., 14 lbs.

92 CZ 100. NET.....4.31

## UNIVERSAL AND ROOF MOUNT



Heavy-duty swivel base mount. Ideal for use with telescoping masts. Described above. Extremely sturdy and versatile. It meets the requirements of almost any mast installation. Can be used on any surface—flat, slanted or peaked. For masts up to 2 1/2" in diameter. Shpg. wt., 2 1/2 lbs.

92 C 536. NET.....1.18

## GROUND RODS



An excellent selection of new, low-cost ground rods. Constructed of moisture-resistant copper-plated steel. Special raised lip keeps ground lead connector permanently anchored on rod. With bolt for easy connection.

| Stock No. | Size    | Shpg. Wt.  | NET EACH |
|-----------|---------|------------|----------|
| 92 CX 537 | 4"x3/8" | 1 1/2 lbs. | .52      |
| 92 CX 538 | 6"x3/8" | 2 1/4 lbs. | .75      |
| 92 CU 539 | 8"x1/2" | 5 lbs.     | 1.52     |

## GROUND & GUY WIRE

Aluminum Ground Wire. No. 8 solid aluminum wire. For all grounding applications.

| Stock No. | Coil Length | Wt., Lbs. | NET   |
|-----------|-------------|-----------|-------|
| 49 T 653  | 50-ft.      | 1 1/2     | .65   |
| 49 T 650  | 100-ft.     | 2 1/2     | 1.25  |
| 49 T 652  | 1000-ft.    | 26        | 11.98 |

No. 20 Galvanized Guy Wire. Six-strand, No. 20 steel wire. Available in 100-ft. or 1000-ft. rolls. Shpg. wt., 100-ft. roll, 2 lbs.

58 T 312, 100-Ft. Roll. NET.....58c

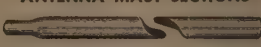
71 TU 513, 1000-Ft. Roll. NET.....5.57

No. 18 Galvanized Guy Wire. Same as above, but for heavier-duty applications. In 100-ft. or 1000-ft. rolls. Wt., 100 ft., 2 1/2 lbs.

51 T 319, 100-Ft. Roll. NET.....88c

71 TU 545, 1000-Ft. Roll. NET.....8.74

## ANTENNA MAST SECTIONS



Seamless, high-strength, steel mast sections. Ends are swaged for easier installation. Heavy wall 1 1/4" O.D. with electro-galvanized finish.

| Stock No. | Height | Wall  | Wt.    | NET  |
|-----------|--------|-------|--------|------|
| 97 CX 137 | 5 ft.  | .035" | 3 lbs. | .60  |
| 97 CX 366 | 5 ft.  | .035" | 4 lbs. | .96  |
| 97 CZ 138 | 10 ft. | .035" | 5 lbs. | 1.25 |
| 98 CZ 367 | 10 ft. | .051" | 7 lbs. | 1.95 |



## BELDEN, AMPHENOL AND KNIGHT TWIN LINE



### BELDEN TWIN LINE

Type 8225, Flat 300-ohm twin line. Finest quality 7x28 stranded copper conductors. High-quality polyethylene jacket has 58-mil thickness. Shpg. wt., 100 ft., 1 1/4 lbs.  
 T 582, 25' Coil, NET ..... 71c  
 T 385, 50' Coil, NET ..... 1.14  
 T 386, 75' Coil, NET ..... 1.53  
 T 389, 100' Coil, NET ..... 1.88  
 W 384, Over 100', Per 100' ..... 1.88

Type 8230, Weldohm 300-ohm twin-line, 70-mil web thickness. Conductor of 72-nd copper-coated steel wire. Copper coat provides high conductivity; steel core for strength. Wt., per 100 ft., 2 lbs.  
 T 448, 25' Coil, NET ..... 76c  
 T 387, 50' Coil, NET ..... 1.21  
 T 388, 75' Coil, NET ..... 1.67  
 T 394, 100' Coil, NET ..... 2.09  
 W 383, Over 100', Per 100' ..... 2.09

Type 8275, 300-ohm UHF-VHF Cellular. Has cellular polyethylene core, gas-filled. Brown polyethylene jacket. Copper-coated steel conductors. Shpg. wt., 100 ft., 3 1/2 lbs.  
 T 396, 50' Coil, NET ..... 2.35  
 T 395, 100' Coil, NET ..... 4.19  
 W 398, Over 100', Per 100' ..... 4.19

Type 8235, 300-ohm, oval twin-line. Very low loss. UHF-VHF use. Copper-plated, 7x26 steel wire conductors. Extremely high 185-mil web thickness. 100-ft. minimum. Shpg. wt., per 100 ft., 4 1/2 lbs.  
 W 399, Over 100', Per 100' ..... 4.70

Type 8285, Low-loss 300 ohm UHF-VHF twin lead resists salt spray, industrial aminators, etc. 22-gauge (7x30) copper conductors. Polyethylene insulation and sheath. Cellular polyethylene outer jacket. Outside diameter, 1/4 x 1/2". Shpg. wt., per 100 ft., 3 1/2 lbs.  
 T 583, 50' Coil, NET ..... 2.79  
 T 584, 75' Coil, NET ..... 4.12  
 T 585, 100' Coil, NET ..... 5.29  
 W 586, Over 100', Per 100' ..... 5.29

### BELDEN TWIN LINE

Type 8222, 72-Ohm Twin Line. (Not Illustrated.) High-quality brown polyethylene jacket. 0.75x1.25" diam. 100-ft. minimum. Shpg. wt., per 100 ft., 1 1/4 lbs.  
 49 T 392, 100' Spool, NET ..... 2.01  
 49 W 379, Over 100', Per 100' ..... 2.01

### AMPHENOL TWIN LINE

Type 214-271, Tubular 300-ohm twin line. Air-core spacing for extremely high efficiency—ideal for UHF or VHF installations. 7x28 copper conductors. 100-ft. minimum. Shpg. wt., per 100 ft., 3 lbs.  
 49 T 444, 100' Coil, NET ..... 3.51  
 49 W 447, Over 100', Per 100' ..... 3.51

Type 214-076, Heavy-duty, extremely durable 300-ohm tubular twin line. May also be used by Amateurs—rated at 1 kw RF. Low-loss air-core spacing for high efficiency and extra durability. 7x26 bare copper conductors of high quality. 100-ft. minimum length. Shpg. wt., 100 ft., 3 1/2 lbs.  
 49 TX 416, 100' Coil, NET ..... 6.36  
 49 W 409, Over 100', Per 100' ..... 6.36

Type 214-103, Marine core 300-ohm twin lead built especially for low loss in high precipitation and coastal areas—in rain, snow or salt spray. Useful also in fringe and industrial areas. 20-gauge (7x28) pure copper conductors polyfoam cores, polyethylene outer jacket. O.D. 1/4 x 1/2". Shpg. wt., per 100 ft., 3 1/2 lbs.  
 49 T 591, 50' Coil, NET ..... 4.20  
 49 T 592, 75' Coil, NET ..... 5.80  
 49 T 593, 100' Coil, NET ..... 7.35  
 49 W 594, Over 100', Per 100' ..... 7.35

Type 214-318, Flat, 300-ohm twin line for indoor installation only. 60-mil web clear polyethylene dielectric. Flexible to permit easy installation around baseboards, etc. Extremely low loss and constant impedance provide maximum transfer of signal. Shpg. wt., per 100 ft., 3 lbs.  
 49 T 486, 25-ft. Coil, NET ..... 87c  
 49 T 481, 50-ft. Coil, NET ..... 1.38  
 49 T 482, 75-ft. Coil, NET ..... 1.89  
 49 T 483, 100-ft. Coil, NET ..... 2.37  
 49 W 484, Over 100', Per 100' ..... 2.37

### AMPHENOL TWIN LINE

Type 214-056, Flat 300-ohm polyethylene twin line for FM and TV antennas. 60-mil web thickness. 7x28 stranded conductors. Brown polyethylene dielectric for more constant impedance. Wt., per 100 ft., 2 lbs.  
 49 T 434, 25' Coil, NET ..... 83c  
 49 T 437, 50' Coil, NET ..... 1.31  
 49 T 439, 75' Coil, NET ..... 1.77  
 49 T 441, 100' Coil, NET ..... 2.22  
 49 W 436, Over 100', Per 100' ..... 2.22

Type 214-100, Flat 300-ohm polyethylene twin line, 100-mil web thickness. 7x28 stranded copper conductors. Brown polyethylene dielectric assures minimum signal loss. Shpg. wt., per 100 ft., 2 1/2 lbs.  
 49 T 417, 50' Coil, NET ..... 1.50  
 49 T 418, 75' Coil, NET ..... 2.09  
 49 T 413, 100' Coil, NET ..... 2.70  
 49 W 419, Over 100', Per 100' ..... 2.70

Type 214-185, Flat, heavy-duty, 300-ohm twin line. For VHF television and FM use. 185-mil web thickness. Resists effects of sun, chemical fumes or salt-laden air. 7x26 stranded copper conductors. 100-ft. minimum. Shpg. wt., per 100 ft., 5 lbs.  
 49 T 414, 100' Coil, NET ..... 5.40  
 49 W 420, Over 100', Per 100' ..... 5.40

### KNIGHT TWIN LINE

UHF-VHF Open Line, 300-ohm. Designed to meet the more critical requirements of UHF installations. Loss 0.5 db per 100 ft. at 200 mc. Wt., per 100 ft., 2 1/4 lbs.  
 49 T 578, 100' Coil, NET ..... 2.17  
 49 TX 579, 250' Coil, NET ..... 4.89

300-ohm VHF-TV Twin Line. High-quality twin line. Provides excellent service at a moderate cost. 80-mil web thickness. Low-loss polyethylene jacket. No. 20 stranded conductors. 100-ft. minimum length. Shpg. wt., 100 ft., 2 lbs.  
 49 T 477, 50' Coil, NET ..... 50c  
 49 T 476, 75' Coil, NET ..... 84c  
 49 T 475, 100' Coil, NET ..... 1.09  
 49 W 435, Over 100', Per 100' ..... 1.09

### POWER CORDS AND CONNECTORS



TV Power Cord and Connector. This durable, all-plastic TV cord is identical to original equipment on most TV sets. 18-gauge conductor cord is 6 ft. long. Molded connector fits standard TV receptacle (Fig. L). Approved. Shpg. wt., 8 oz.  
 C 232, NET ..... 21c  
 C 234, NET ..... 26c

New Columbia Type 145 TV Cheater Cord. For use in the home; handy for the ho-TV serviceman too. Brown plastic 2-prong cord; molded plastic plugs. 6 ft. long. Labeled for safety. U.L. approved. Shpg. wt., 5 oz.  
 C 478, NET ..... 32c

Male Connector. Flush mounting; used on most TV sets. Shpg. wt., 2 oz.  
 C 238, NET ..... 9c

Power Cord and Connector. (Not illustrated.) Identical to original equipment on Smith and many other popular brands of TV sets. Plastic-insulated, 18-gauge 2-conductor cord, 6 feet long. Molded-on rubber plug with type, polarized female connector, 1" dia. 7/8" deep. 1/2" pin spacing. U.L. Approved. Shpg. wt., 10 oz.  
 C 239, NET ..... 36c

### GUY WIRE TURNBUCKLES

Provide easy adjustment of guy-wire tension. Heavy-duty cast aluminum. Fig. N has closed loops for use where quick removal not required. Other types easily disconnected. Av. wt., 8 oz.



| Stock No. | Fig. | Closed | Open   | NET | 10-Up, E.A. |
|-----------|------|--------|--------|-----|-------------|
| 44 C 790  | M    | 5/16"  | 7/8"   | 12c | 11c         |
| 44 C 791  | M    | 3/4"   | 9/16"  | 20c | 18c         |
| 44 C 792  | M    | 7/8"   | 1 1/8" | 30c | 27c         |
| 44 C 796  | N    | 5/16"  | 7/8"   | 12c | 11c         |
| 44 C 797  | N    | 3/4"   | 9/16"  | 20c | 18c         |
| 44 C 798  | N    | 7/8"   | 1 1/8" | 30c | 27c         |

### PENN FLOATING GUY RINGS

GRA-140, Cast aluminum, ring and collar. Fasten with set screw. Permits rotating antenna after guys are installed. Lubricated for smooth rotation. For 3 or 4-guy installations on masts to 154' Shpg. wt., 8 oz.  
 97 C 178, NET ..... 1.15  
 GRA-141, Same as GRA-140 but for masts up to 1 1/2" O.D. Shpg. wt., 9 oz.  
 97 C 179, NET ..... 1.21



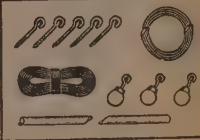
### PENN TV MAST MOUNT

Sturdy, easy-to-install, aluminum TV mast mount. Excellent for flat and sloping roofs and all side walls. Permit one-man installation of tall, fringe area antennas. Swivel joint locks securely in any position. Adjustable top supports antenna masts from 1' to 2' O.D. Shpg. wt., 2 lbs.  
 97 C 176, NET ..... 3.06



### KNIGHT TV ANTENNA INSTALLATION KIT

Accessories for Quick, Easy Installation of Any TV Antenna



Extremely useful TV antenna installation kit at a money-saving price. Ideal for making new TV antenna installations or for repair of existing installations. Top-quality components for years of reliable service. Kit includes: 3-3-foot mast sections of heavy-wall, galvanized steel, 100 feet of 300-ohm twin-line, U.L. approved lightning arrester; 5 screw-type standoff insulators; 2 mast-type standoff insulators; 20 feet of No. 8 gauge, solid aluminum ground wire. Shpg. wt., 7 1/4 lbs.  
 71 CX 687, NET ..... 3.27

### STANCOR TV TUBE BOOSTER

Model P8192. Adds life to aging picture tubes when dimness is due to low cathode emission. Boosts emission, returns full brightness and contrast to picture. For all electro-magnetic picture tubes with parallel-connected filaments. Simple, plug-in installation. Switch provides two levels of brilliance. Size, 3 1/2 x 1 1/2". Shpg. wt., 8 oz.  
 80 C 182, List, \$5.44. NET ..... 3.20

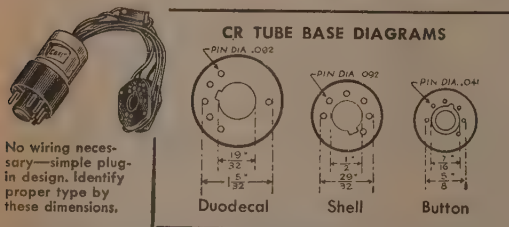


# TV Antenna Accessories — Tube Brighteners

- A Hanger Strap.** Designed for mounting antenna masts to odd-shaped objects. Made of corrosion-resistant, heavy  $\frac{3}{4}$ " galvanized steel strapping, 12' coil. Wt., 1 lb.  
71 C 400, NET.....23c
- B Wall Stand-Off Insulator.** Designed for securing antenna twin-lead to baseboards, walls, etc. Pack in type for easy installation. Wt., per pkg., 10 oz. 10 per pkg.  
71 C 608, PER PKG.....44c
- C Ring Clamp.** Supports guy wire ring on antenna mast. Constructed of corrosion-resistant steel. Provides slip-proof grip on mast. Fits mast diameters (O.D.) shown below. Shpg. wt., per pkg., 3 oz. 5 per pkg.  
71 C 609,  $\frac{3}{4}$ "-1" PER PKG.....25c  
71 C 610, 1"-1 $\frac{1}{4}$ " PER PKG.....25c
- D Cable Clamp.** Provides non-slip grip on antenna and tower guy-wires. Ends meet for splicing or soldering cable loops. Fits cables up to  $\frac{3}{4}$ " dia. U-bolt has  $\frac{3}{4}$ "x24 thread. Galvanized collar has tapered slots—increases cable grip with each turn of wrench.  $\frac{1}{2}$ "x1 $\frac{3}{4}$ ". Shpg. wt., 4 oz.  
71 C 686, NET EACH.....14c
- E U-Bolt.** Galvanized steel. With nuts and washers. Fits up to 1 $\frac{3}{4}$ " (O.D.) masts. Shpg. wt., per pkg., 8 oz. 2 per pkg.  
71 C 611, PER PKG.....19c
- F Mast Clamp.** Has serrated yoke for tight, non-slip grip on masts. For 2 masts with max. O.D. of 1 $\frac{3}{4}$ " each. Made of galvanized steel. Wt., per pkg., 4 oz. 2 per pkg.  
71 C 612, PER PKG.....34c
- G Antenna Clip.** Very handy for servicemen. Clips 300-ohm lead-in to antenna terminals. Low-loss plastic clip with screw terminals for twin line,  $\frac{3}{4}$ " long. Shpg. wt., 2 oz.  
41 C 132, NET.....7c
- H Universal Guy Ring.** Designed to rest on anchored on ring clamp. For 1 $\frac{1}{4}$ " O.D. masts. Wt., per pkg., 10 oz. 5 per pkg.  
71 C 615, PER PKG.....37c
- J Open Guy Wire Hook Eye.** Designed to anchor guy wires firmly and securely. Screws into wood. Made of galvanized steel. Shpg. wt., per pkg., 10 oz. 5 per pkg.  
71 C 619, PER PKG.....30c
- K Closed Hook Eye.** Anchors guy wires. 5" long. Wt., per pkg., 10 oz. 5 per pkg.  
71 C 621, PER PKG.....23c

- L Heavy-Duty Lag Bolts.** For rigidly securing mast masts, tower bases, etc., to wood, brick, masonry or other surfaces. Made of corrosion-resistant, heavy cadmium-plated steel. Bolts have a  $\frac{1}{2}$ " diameter shank. Av. shpg. wt., per pkg., 5 oz. 10 per pkg.  
71 C 605, 1 $\frac{1}{2}$ " PER PKG.....42c  
71 C 606, 2" PER PKG.....47c
- M Universal Stand-Off Insulators.** For use with flat, oval or tubular twin-lead, and coaxial TV lead-in. Polyethylene insulation. Fasten securely by screwing into wood. Av. shpg. wt., per pkg., 10 oz. 5 per pkg.  
71 C 622,  $\frac{3}{4}$ " PER PKG.....14c  
71 C 623,  $\frac{5}{8}$ " PER PKG.....20c  
71 C 624,  $\frac{7}{8}$ " PER PKG.....25c
- N Double-Stand-Off Insulators.** Wood-screw type insulator holds two separate leads simultaneously. Can be used for flat, oval, tubular and coaxial lead-ins. Av. wt., per pkg., 10 oz. 5 per pkg.  
71 C 628,  $\frac{3}{4}$ " PER PKG.....47c  
71 C 629,  $\frac{5}{8}$ " PER PKG.....52c  
71 C 630,  $\frac{7}{8}$ " PER PKG.....54c
- P Strap-Type Single Stand-Off Insulators.** Mount on mast. For flat, oval, tubular and coaxial lead-in. In lengths listed below. Shpg. wt., per pkg., 6 oz. 3 per pkg.  
71 C 654,  $\frac{3}{4}$ " PER PKG.....25c  
71 C 655,  $\frac{5}{8}$ " PER PKG.....25c  
71 C 656,  $\frac{7}{8}$ " PER PKG.....31c
- R Strap-Type Double Stand-Off Insulators.** Universal type for use on flat, oval, tubular, and round lead-in or coaxial lines. Holds two transmission lines—can be used when two antennas are mounted on a common mast, such as in a VHF-UHF installation. Has universal, strap-type mount for clamping to any mast. In lengths listed below. Average shpg. wt., per pkg., 8 oz. 2 per pkg.  
71 C 633,  $\frac{3}{4}$ " PER PKG.....33c  
71 C 634,  $\frac{7}{8}$ " PER PKG.....48c
- S Drive-In Stand-Off Insulators.** Universal stand-off. For use with flat, oval, tubular and coaxial TV lead-ins. For driving into wood, brick, masonry or other surfaces.  $\frac{3}{4}$ " long. Wt., per pkg., 5 oz. 5 per pkg.  
71 C 626, PER PKG.....18c
- T Universal Hot Nail Stand-Off Insulators.** Designed for use with flat, oval, tubular, and coaxial TV lead-in line. Holds securely when driven into wood, mortar, or brick. Permits extra-fast installations—do not require drilling of starting holes. Length  $\frac{3}{4}$ ". Shpg. wt., per pkg., 4 oz. 5 per pkg.  
71 C 627, PER PKG.....42c
- W Open Line Stand-Off Insulator.** Has slots for 300, 450 or 600 ohm lines.  $\frac{5}{8}$ " nail-type mounting. Holds transmission line securely, prevents sagging—permits neat, slack-free, no-slip installation. Av. shpg. wt., per pkg., 5 oz. 5 per pkg.  
71 C 670, PER PKG.....59c
- X Ground Clamp.** For secure ground connection to water pipes up to 1 $\frac{1}{4}$ " diameter. Has pointed screw tip for positive "bite". Convenient screw terminal for ground wire. Shpg. wt., 4 oz.  
51 C 310, EACH.....20c  
10 or more, EACH.....14c

## PERMA-POWER TUBE "BRITENERS"



No wiring necessary—simple plug-in design. Identify proper type by these dimensions.

**Model C-301 Isolation Type—Duodecal Base.** Low-cost, transformer-type brightener for use with any 6.3-volt, 600-ma. tubes. Provides the normal 6.3 volts to relieve cathode-filament shorts, or 7.8 volts to increase cathode emission. Simple switch permits instant, easy selection. For TV activating electrostatic or magnetic focus picture tubes having either parallel or series-wired filaments. Shpg. wt., 10 oz.  
80 C 184, List, \$4.45, NET.....2.62

**Model C-202 Autoformer Type—Duodecal Base.** For sets having series or parallel-wired filaments. Installs on any black-and-white picture tube—8" or larger. Boosts filament power a full 50%. Does not relieve cathode-filament shorts. Shpg. wt., 8 oz.  
78 C 596, List, \$3.75, NET.....2.20

**Model C-401 Autoformer Type—Duodecal Base.** An exceptionally low-cost TV picture tube brightener. Gives 50% power boost. Works on all black-and-white electrostatic or electromagnet focus picture tubes of 8" or larger. Does not relieve cathode-filament shorts. For use in television receivers having parallel-wired filaments only. Shpg. wt., 8 oz.  
80 C 183, List, \$1.49, NET.....87c

**Model C-402 Autoformer Type—Duodecal Base.** Same as above, but for use in sets having series-wired filaments only.  
80 C 188, List, \$1.49, NET.....87c

**Model C-212 110° Autoformer Type—Button Base.** Dual-purpose tube brightener for 110° picture tubes. Boosts filament power a full 50%. Has switch for instant adaptation to either parallel or series-wired filaments. Shpg. wt., 8 oz.  
78 C 597, List, \$3.75, NET.....2.20

**Model C-222 110° Autoformer Type—Shell Base.** Same as above, except for shell base. Shpg. wt., 8 oz.  
78 C 598, List, \$3.75, NET.....2.20

**Model C-411 Autoformer Type—Button Base.** Economy-priced, single-purpose unit. Boosts filaments to 7.8 v. on electrostatic or magnetic focus tubes. For parallel-wired filaments only. Shpg. wt., 8 oz.  
82 C 249, List, \$2.49, NET.....1.46

**Model C-412.** As above, but for series-wired filaments.  
82 C 246, List, \$2.90, NET.....1.71

**Model K-101 Picture Tube Restorer—Duodecal Base.** This multi-function unit boosts cathode emission, corrects open cathodes, heater-cathode shorts, open control grids, control grid-cathode shorts, plus combinations of these defects. Only for use with 6.3-volt, 600-ma. tubes, either electrostatic or magnetic focus. Shpg. wt., 1 lb.  
80 C 189, List, \$6.65, NET.....3.90

**Model C-501 Autoformer Type—For Color Tubes.** Boosts emission of any 21" or 22" 3-gun tube to fully restore color fidelity. 1 lb.  
82 C 244, List, \$9.75, NET.....5.73

## NEW ANCHOR PICTURE TUBE "KURE-ALL"



**Model UK 200—Duodecal Base.** Extremely versatile CRT restorer. Designed to correct heater-cathode and control grid-cathode shorts, open cathodes and control grids, plus low cathode emission, or any combination of these. In addition, a special control permits isolation of parallel or series filaments with either normal or heater voltage. For either electrostatic or electromagnet focus tubes. With instructions. Shpg. wt., 1 lb.  
61 C 198, List, \$6.50, NET.....3.90



## BRANDT TV PICTURE CLARIFIER



ly device that improves reception in any area by amplifying the pick-up power of antenna electronically. Filters out ghosts interference; clears up blurred, snowy scenes. 12-position switch for selecting clear-up on any channel. Works with any a—outdoor, indoor or built-in. Simply unit between your antenna and TV set; plug into any 115 v. AC or DC outlet. twin line. Shpg. wt., 2 1/4 lbs. **599. NET. 5.95**

## BLONDER-TONGUE COUPLERS

**A-102 Set Coupler.** Set coupler featuring a high-impedance phase discriminator circuit prevents crosstalk between sets. Has a strong signal for FM set. No strip leads, for quick and installation. 300-ohm impedance. Isolation 20 db. Insertion loss, 3.5 db. Size, 1 1/2 x 2 1/4. Shpg. wt., 4 oz. **213. List, \$3.50. NET. 1.76**



**A-104 Four-Set or Antenna Coupler.** For model A-102 above, but for connecting 4 TV sets to one antenna, or 4 antennas to one antenna. Easy to install. Isolation, 20 db. Loss, 7.5 db. Size, 1 1/4 x 2 1/4 x 2 1/4. Shpg. wt., 4 oz. **211. List, \$4.95. NET. 2.45**

**A-105 Hi-Lo Antenna Coupler.** An antenna coupler connecting high and low TV antennas to TV set with a single 300-ohm line. Designed for fast, easy installation. Isolation, 21 db. Loss, 1 db. Size, 1 1/4 x 2 1/4 x 2 1/4. Shpg. wt., 4 oz. **214. List, \$4.95. NET. 2.89**

## ACO SELECTIVE ATTENUATOR

**A-835.** 300-ohm line attenuator for TV and FM receivers. Cuts down incoming signals. Reduces sound and picture distortion caused by overdriving receiver. Positions: 0 db for attenuation (normal load); 15 db for maximum. Size, 4 1/4 x 2 1/4. Shpg. wt., 5 oz. **246. List, \$4.75. NET. 2.81**



## TELCO LIGHTNING ARRESTER

**8642.** Extremely versatile, low-cost lightning arrester for protection of TV sets. For flat, round, oval, flat, or tubular antenna. No stripping, cutting, or splicing of antenna for positive contact. Toothed circular contacts make firm contact. Constructed of low-loss material for full signal strength. U.L. Approved. Single screw mounting. Shpg. wt., 6 oz. **242. List, \$1.25. NET. 73c**

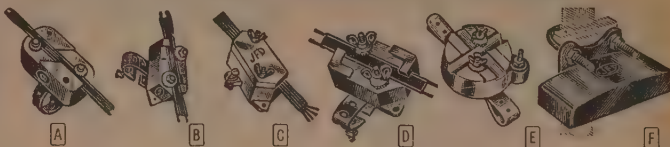


## RADIO LIGHTNING ARRESTER

Low-cost, general purpose lightning arrester. Designed for series installation in single-wire antenna lines of radio receivers. Ruggedly constructed of high-quality, moisture-proof porcelain. Has high barrier between terminals for extended leakage path. Sturdy terminals assure solid, permanent connection. U.L. Approved. Shpg. wt., 6 oz. **280. NET. 25c**



## JFD LIGHTNING ARRESTERS AND COUPLERS



**A AT102 Regular Flat-Line Lightning Arrester.** Designed to accommodate all ribbon-type twin lead. Has special retaining flange to prevent twin lead from working loose. Water-proof porcelain body. U.L. Approved. With stainless steel hanger strap, 4-ft. aluminum ground wire and mounting hardware. Shpg. wt., 15 oz. **71 C 479. List, \$2.25. NET. 1.32**

**B AT105 Universal Arrester.** Can be mounted on mast or pipe. Connections are made by saw-toothed screw terminals. For flat, tubular and open wire lead. With hanger strap. U.L. Approved. Shpg. wt., 13 oz. **71 C 530. List, \$1.50. NET. 88c**

**C AT104 Lightning Arrester.** For antenna rotator installation. Handles 4-wire lead-ins. 8 precision-spaced teeth make positive contact with conductors. U.L. Approved. With ground lug. Shpg. wt., 15 oz. **71 C 519. List, \$1.50. NET. 88c**

**D AT110 Lightning Arrester.** For flat or open-type transmission lines. Strain-relief lip for protecting both types of lead-in. Mounts on outside wall or window sill. With ground lug. U.L. Approved. Shpg. wt., 15 oz. **71 C 531. List, \$1.50. NET. 88c**

**E AT131 Lightning Arrester.** For flat, tubular, oval, or open-wire transmission lines. Saw-tooth washers assure positive contact without cutting or stripping of wire. Constructed of low-loss material for full signal strength. With wood screw and strap. U.L. Approved. Shpg. wt., 10 oz. **71 C 537. List, 75c. NET. 44c**

**F Type AC Set Couplers.** A fine selection of highly efficient TV set couplers. Permit 2 to 3 or 4 TV sets from the same antenna. Ideal for hotels, apartment buildings and other multiple dwellings. Supplied with U-bolt, to permit convenient mounting on antenna mast of desired type, and output impedance, 300 ohms. Shpg. wt., 8 oz.

| Stock No. | Type | Description            | NET  |
|-----------|------|------------------------|------|
| 71 C 661  | AC40 | 2 TV sets to 1 antenna | 2.06 |
| 71 C 662  | AC60 | 3 TV sets to 1 antenna | 2.35 |
| 71 C 663  | AC70 | 4 TV sets to 1 antenna | 2.85 |

**AC Antenna Couplers.** (Not illus.) For connecting 2 separate TV antennas to single twin-line. Eliminate need for running separate twin lines through the house. Supplied with all hardware. Av. shpg. wt., 3/4 lbs.

**AC 10.** For coupling 2 antennas; high-band and low-band VHF. **51 C 269. List, \$3.50. NET. 2.06**

**AC 20.** For coupling 2 antennas. Permits connecting separate UHF and VHF antenna to a single length of twin line. **51 C 266. List, \$3.75. NET. 2.20**

**RA-2 Two-Set TV Antenna Coupler.** For operation of two TV receivers from same antenna. Delivers full signal strength on all VHF and UHF channels. Maintains constant 300-ohm impedance. Attaches with single screw. 6 oz. **71 C 660. NET. 97c**



## RCA AND AMPHENOL ARRESTERS AND COUPLERS



**G Type 235A1 Arrester.** Expertly designed low-loss UHF-VHF lightning arrester—no splicing, stripping, or soldering of antenna line necessary. Screw cap type—forces antenna line against staple contacts which pierce insulation and make positive contact with conductors. U.L. Approved. Strap-type mounting permits quick and easy installation on mast or water pipe. Shpg. wt., 8 oz. **51 C 229. NET. 82c**

**H Type 240A1 TV Set Coupler.** Permits operation of 2 or more TV sets from one antenna having a 300-ohm transmission line. Saves cost of additional antennas. Uses resistance elements only—does not affect impedance of transmission line. Provides isolation between TV receivers to reduce interference caused by interaction of their oscillators. Easily installed. Shpg. wt., 6 oz. **51 C 246. NET. 1.15**

**I Type 114-329 Arrester.** An efficient universal lightning arrester. For flat, tubular, or open line. No stripping, cutting, or splicing of line necessary. Knife-edge contacts, cut through insulation to make positive contact. Low-loss, phenolic body. With mtg. screws. U.L. Approved. Shpg. wt., 5 oz. **51 C 247. List, \$1.50. NET. 90c**

**J Type 114-329.** As above, with strap mount. **51 C 289. List, \$1.75. NET. 1.05**

**K Color Couplers.** Highly efficient, low-loss couplers for connecting two, three or four TV sets to one antenna. Provide effective isolation of sets and low signal loss through proper impedance matching. Work equally well with either color TV sets or black and white. Excellent also for matching FM radios to a single antenna. Have attractive appearance as well as weather-proofing and durability—suitable for either indoor or outdoor installation. Have built-in strain relief (flanged mount) for antenna lead-in. 2-screw mounting. Wt. 1/4 lb. **71 C 114-097. 2 sets to 1 antenna. 1.77**

**71 C 114-098. 3 sets to 1 antenna. 2.37**

**71 C 114-099. 4 sets to 1 antenna. 2.97**

**L Tele-Couplers.** Highly efficient low-loss couplers for operating up to four TV sets from one VHF or UHF antenna. Permits using a single transmission line to antenna. Bifilar wound network provides high degree of isolation to prevent interaction between sets. Also offers very low insertion loss. May be installed indoors or outdoors. Av. wt., 1/2 lb.

**Type 114-088, 2 set Telecoupler. 51 C 272. List, \$3.75. NET. 2.25**

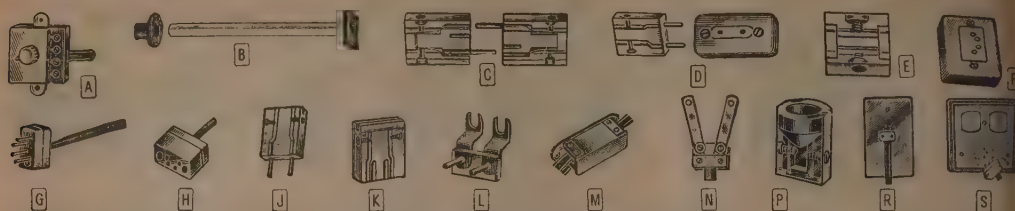
**Type 114-090, Up to 4 set coupler. 51 C 274. List, \$5.75. NET. 3.45**

**Antenna Couplers.** (Not illus., similar to Fig. 1.) Eliminate antenna switching and separate lead-lines. Permit using single 300-ohm line to separate high and low-band VHF antenna and UHF-VHF antennas. Efficient filters for effective isolation. With mast mounting hardware. Shpg. wt., 1 1/4 lbs.

**Model 114-094 "Duonet."** Couples separate high and low band VHF antenna or FM and TV antenna for combined operation with a single 300-ohm lead-in. **51 C 293. List, \$3.75. NET. 2.25**

**Model 114-061 "Isonet."** VHF-UHF coupling network. Permits using a single 300-ohm twin line to separate VHF and UHF antennas. **51 C 273. List, \$3.75. NET. 2.25**

# Television Accessories



## MOSLEY TWIN-LINE ACCESSORIES

**A** Type F-40 2-Way Antenna Switch. Selects either of two antennas. Maintains 300-ohm impedance in both positions. 8 oz.  
40 C 425. Brown plastic case.  
40 C 426. Ivory plastic case.  
NET EACH.....1.33

**B** Type 625 Wall-Thru Insulator. For twin line or RG-59/U coax. Fits any wall up to 1 1/2" thick. Includes polystyrene tube 14" long, inside plate and outside cap. If desired, universal TV socket, 343-PK (listed below) may be installed on inside plate. Shpg. wt., 1 lb.  
40 C 430. Brown plastic ends.  
40 C 440. Ivory plastic ends.  
NET EACH.....1.26

**C** Type 321 Polarized Connector. Efficient twin-line connector consisting of 2 polystyrene plugs, each with one male and one female. Assures proper polarization. 1 3/4" long. Shpg. wt., 2 oz.  
72 C 711. PER PAIR.....39c

**D** Type 343-PK Transmission Line Socket with Plug. Can be mounted on inside plate of Type 625 Wall-Thru insulator, above. With solderless twin line plug and mtg. screws. Shpg. wt., 2 oz.  
40 C 413. Brown plastic. NET  
40 C 412. Ivory plastic. EACH.....68c

**E** Type 27-S Flat-Line Polystyrene Splitter. Strip wires, insert, and tighten set screws for positive electrical contact. Size, 3/4"x3/4". Shpg. wt., 2 oz.  
72 C 706. NET EACH.....12c

**F** Type 354 Solderless Base Sockets. Precision molded polarized multi-wire connectors for up to 4-wire flat or round cable. Molded polystyrene body, phosphor bronze contact strips. Accepts 2 or 4-wire line plugs listed at right, above. Shpg. wt., 2 oz.  
40 C 437. NET.....89c

**G** Line Plugs. Solderless. For 2 or 4-wire, flat or round cable. Shpg. wt., 2 oz.

| Stock No. | Type | Description      | NET |
|-----------|------|------------------|-----|
| 40 C 429  | 303  | For 2-wire cable | 20c |
| 40 C 431  | 374  | For 4-wire cable | 49c |

**H** Type 364 Line Socket. For use with up to 4-wire flat or round cable. Accepts Type 303 or 374 line plugs above. Solderless, no individual set screws. With phosphor bronze contact strips. Shpg. wt., 2 oz.  
40 C 434. NET.....63c

**J** Type 301 Plug. Ideal for connecting TV antenna lead-in to set or booster. Made of polystyrene. 1/4" pin spacing (fits socket below). Shpg. wt., 2 oz.  
72 C 705. NET.....20c

**K** Type 311 Socket. For use with twin-line plug above. Standard 1/4" spacing. Polystyrene insulation. Shpg. wt., 2 oz.  
72 C 709. NET.....20c

**L** Type 304 Mosley Antenna Connector. Connects lead-in to TV antenna terminal. Fits Type 311 socket, above. 2 oz.  
40 C 439. NET.....20c

**M** Type 302 Dual-Match TV Coupler. Operates 2 TV sets from 1 antenna. For 300-ohm line. Polystyrene construction minimizes losses. Solderless connections. 3 oz.  
40 C 424. NET.....1.92

**N** Type 263S, "V-TV" for connecting all types of transmission lines to 4" max. elements. Solderless, screw connections 4" max. width. Wt., 6 oz.  
40 C 443. NET.....42c

**P** Type 29-S Tubular To Flat-Line Splitter. For joining tubular or oval 300-ohm lines to standard flat lines. Clear polystyrene. Shpg. wt., 3 oz.  
40 C 442. NET.....14c

**R** Type F-1PK Flush Socket and Wall Plate. For TV or FM installations using 300-ohm twin-line. Low loss polystyrene socket with phosphor-bronze contacts. Fits standard outlet box. Plastic plate. With plug and mounting brackets. Shpg. wt., 6 oz.  
40 C 419. Brown. NET  
40 C 418. Ivory. EACH.....1.21

**S** Type F-1PK Dual Flush Socket and Wall Plate. Similar to above, but for 2 twin-line connections, with plug. Shpg. wt., 6 oz.  
40 C 417. Brown. NET  
40 C 416. Ivory. EACH.....1.66

**T** Type F-11PK Triple Flush Socket and Wall Plate. Similar to above, but for 3 twin-line connections. With plug. 6 oz.  
40 C 427. Brown. NET  
40 C 428. Ivory. EACH.....1.73

**U** Type F-14PK Combination Flush Socket and Wall Plate. Similar to above, but for 300-ohm twin-line and 4-wire rotor cable connections, with plug. Shpg. wt., 6 oz.  
40 C 415. Brown. NET  
40 C 414. Ivory. EACH.....2.17

**V** Type F-14PK Combination Flush Socket and Wall Plate. As above, but for 2 twin-lines and 4-wire rotor cable. With plugs. 8 oz.  
40 C 448. Brown plastic. NET  
40 C 449. Ivory plastic. EACH.....2.17

**W** Type AC-1PK AC-TV Wall Plate Socket. Duplex AC receptacle cover plate with built-in twin line socket. With twin line plug Ivory finish. Shpg. wt., 2 oz.  
40 C 407. NET.....1.22

**X** Type AC-14PK Wall Plate Socket. Duplex AC receptacle cover plate with built-in sockets for terminating twin line and 4-wire rotor cables. With twin line and rotor cable plugs Ivory finish. Shpg. wt., 2 oz.  
40 C 408. NET.....2.15

## TV INTERFERENCE FILTERS AND TWIN-LINE ACCESSORIES

### REGENCY HIGH-PASS FILTER

**Model HP-45.** Attenuates signal frequencies below 55 mc. Provides effective and in elimination of TVI originating on frequencies below the VHF TV band. Has constant "K" type filter with cut-off frequency of 45 mc in a 300 ohm balanced line. Approximately 20 db attenuation at 29 mc; 40 db or more at frequencies of 14 mc and below. Signals above 55 mc are passed through filter without loss. Unit is supplied complete with mounting bracket and instructions. Size, 1 1/2"x1 1/4". Shpg. wt., 2 oz.  
77 C 569. List, \$1.65. NET.....99c

### JFD ANTENNA SWITCHES

**Model AS1.** 3-way, low-loss lever-type switch. For multiple TV or FM antenna installations. Permits selecting any one of up to 3 separate antennas. Size, 2 1/4"x1 1/4". Shpg. wt., 2 lbs.  
71 C 539. NET. 2.20

**Deluxe Model AS3.** Constant 300-ohm impedance rotary switch with low-loss silver contacts. Selects any one of up to three antennas. Plastic case. screw terminals. 1 1/4"x5/2". Wt., 2 lbs.  
71 C 540. NET. 2.91

### SUPEREX "CLEAR-PIX" FILTERS

**Model CLEAR-PIX.** Designed to minimize or eliminate the common types of TV interference. Effectively reduce interference caused by Amateur transmitters in the 21 to 45 megacycle band, FM, ignition and other high frequency sources. Do not affect signal strength. Quickly installed with only a screwdriver—brass lugs attach to same screws that hold antenna connections at back of receiver. For use with any model TV set using 300-ohm twin lead transmission line. Shpg. wt., 5 oz.

| Stock No. | Mfr's Type | Interference Used For | NET EACH |
|-----------|------------|-----------------------|----------|
| 51 C 043  | CPI        | 21 mc Amateur         | 1.17     |
| 51 C 046  | CPI        | Strong FM station     |          |
| 51 C 045  | CPI        | Ignition or similar   |          |
| 51 C 042  | CPI        | Citizens Band         |          |

### TELCO LEAD-IN TUBES

**Type 8641.** Combination plastic lead-in tube and lightning arrester. Fits walls to 16" in thickness. Has lightning arrester on outside end; wall plug on inside. Simple installation: lead-in wire is fastened under teeth of lightning arrester and contact is made to inside. Requires 1/2" mounting hole. Shpg. wt., 1 lb.  
51 C 100. List, \$2.95. NET.....1.77

**Type 8958.** As above, less arrester and plug. Ideal for terminating open line outside and bringing standard line into house. 1/2 lb.  
71 C 559. List, \$2.35. NET.....1.40

### AMPHENOL HIGH-PASS FILTER

**Model 114-300.** Reduces TV interference from transmitters, die thermys, ignition, etc. Attenuation: 40 db below 50 mc; 300 ohm 1 1/4"x4 1/4"x3 1/4". Shpg. wt., 6 oz.  
51 C 279. NET. 4.17

### R. L. DRAKE HIGH-PASS FILTER

**Model TV-300-HP.** Efficient high-pass filter. Attenuates more than 40 db from 0-50 mc—highly effective on meter Amateur TVI. For 300 ohm use. Size, 2 1/2"x2 1/4"x1 1/4". Shpg. wt., 1/2 lb.  
77 C 567. NET.....3.97

### CINCH-JONES WALL PLATE

For terminating TV antenna lead-in and rotor cables in standard wall outlet. Wall plates are chrome-plated. Model S-302 for antenna lead-in. Model S-303 for lead-in plus 4 rotor wires. Model S-302-8, for lead-in and 8 rotor wires. Shpg. wt., 7 oz.

| WPC Style TV Wall Plates |                       |
|--------------------------|-----------------------|
| 41 C 646.                | S-302. NET.....1.38   |
| 41 C 647.                | S-302-4. NET.....1.67 |
| 41 C 648.                | S-302-8. NET.....1.79 |

### CCT-Style Plugs for Above

|           |                                      |
|-----------|--------------------------------------|
| 40 H 802. | P-302. Antenna plug. NET.....46c     |
| 40 H 804. | P-304 4-wire rotor plug. NET.....53c |
| 40 H 808. | P-308 8-wire rotor plug. NET.....65c |



# TV Components and Accessories

## "COMFORT LINE" TV TABLES



71



917



81



737



957

**Model 71 Photo-TV Table.** Table top is sheet steel. Holds any size portable or model TV set, phonograph, etc. Arms 11" from 17½" to 32". Stands 23" high. 3" casters and convenient utility shelf. Ed in satin black. Shpg. wt., 12 lbs.  
**\* 149. NET.....6.50**

**Model 917.** As above, but brass-plated arms, and shelf; matching bronze table top.  
**\* 159. NET.....8.47**

**line Series.** Slim and graceful in appearance, these sturdy TV tables are especially designed to hold the new, narrow, "slimline" sets. All have table top 23" wide and 10½" high. Durable finished in black, non-chip enamel. Hard shell brass. Extremely stable and proof, these tables can be easily moved indoors or out—clear lucite casters roll smoothly at the touch of a finger. Active lower shelf can be used for record storage. Available in black enamel finish in a choice of 2 different heights.

**Model 917.** In handsome brass finish. 24" 3" casters. Shpg. wt., 11 lbs.  
**\* 570. NET.....7.81**

**Model 911.** In attractive, black enamel finish. 24" 3" casters. Shpg. wt., 11 lbs.  
**\* 571. NET.....6.50**

**Model 927.** In handsome brass finish. 30" 3" casters. Shpg. wt., 12 lbs.  
**\* 572. NET.....8.47**

**Model 81 TV Table With Shelf.** Handsomely styled, solid-top television table. Fits any table-model TV set—arms extend from 17½" to 32". Stands 18" high; 3" lucite casters. Satin black finish. Has shelf for storing books, records, etc. Shpg. wt., 10 lbs.  
**99 CX 131. NET.....5.85**

**Model 87.** As above, but all-brass finish.  
**99 CX 132. NET.....7.81**

**Model 517 TV Table Cart.** Beautifully designed, sturdily built, this handsome TV table also doubles as a graceful serving cart! Its smart, modern black and brass decor and its gracious appearance make it a welcome serving aide at the most fashionable of social gatherings. Holds any size TV set—has extension arms which open to 22" close to 17". Also ideal for holding phonographs and hi-fi sets. Cart stands 24" high; has 3" clear lucite casters. Constructed of sturdy tubular steel, heavily brass-plated throughout. Has black casters. Shpg. wt., 13 lbs.  
**99 CX 449. NET.....9.11**



**Model 737 All-Purpose Hi-Fi TV Table.** Has beautiful metallic gold finish throughout. Brass arms extend from 17½" to 32" to fit any TV set. Stands 31" high; has 3" clear casters. Heavy gauge steel frame with 16x1½" top and 2 wire shelves. Shpg. wt., 15 lbs.  
**78 CX 573. NET.....9.77**

**Model 957 Deluxe Slimline TV Table.** Features contoured steel table top lavishly covered with rich embossed leatherette. Unit stands 24½" high; table top is 23x10½". Triple brass-plated. 3" lucite casters. Shpg. wt., 11 lbs.  
**78 CX 574. NET.....11.73**

**Model 947 TV Table.** Slightly smaller version of above. Table top styled in attractive gold metallic finish. Stands 23½" high with 2" lucite casters. Brass plated. Shpg. wt., 11 lbs.  
**78 CX 575. NET.....8.47**

**Model 567 Heavy-Duty TV Table.** For bigger, heavier TV sets with 21" and larger screens. Has extension arms which open to 35½", close to 18½". Has heavy tubular steel construction with heavy brass plating. 3" lucite casters. Shpg. wt., 12½ lbs.  
**99 CX 439. NET.....9.11**



## TELEVISION ACCESSORIES

### PERMA-POWER HORIZONTAL BAR GENERATOR

Use of low-loss 52 or 72-ohm cable on 300-ohm receiver in 2 required: one at antenna, and receiver. May be used indoors doors. Simple one-hole mounting. 1½x¾x¼". Shpg. wt., 2 oz.  
**516. Type 6161. 52 ohms.**  
**517. Type 6162. 72 ohms.**  
**EACH.....1.76**



### VIDAIRE "KINE TEST"

Tester for checking electron magnetic and electrostatic focus magnetic tubes by substitution method. No need to remove picture tube or chassis from cabinet. Just plug tester into picture tube socket. Electron-ray tube dynamically checks filament, bias, and 1st anode voltages, video signal, etc. Compact—easily fits in tool chest. With instructions. 4½x1½". Shpg. wt., 6 oz.  
**84 C 017. List, \$4.90. NET.....2.88**



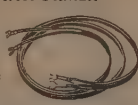
### CRT EXTENSION HARNESS KIT

**Model K302.** Makes service faster and easier. Eliminates testing of any black and white screen picture tube. Fits 3-ft. anode ion harness; 4-ft. socket harness for electrostatic and magnetic tubes; 3-ft. extension harness for sets using octal and socket. In rugged, heavy-duty plastic. Shpg. wt., 10 oz.  
**348. List, \$5.40. NET.....3.18**



### AMPHENOL 114-313 MATCHING TRANSFORMER

Stub-type transformer for matching 72-ohm and 300-ohm impedances. Matches 72-ohm line to 300-ohm antenna or receiver inputs; also matches 300-ohm line to 72-ohm inputs. Excellent for matching folded dipole antenna to coaxial lead-in. Supplied with spade lugs on each end for easy connection to screw-type terminals. Shpg. wt., 14 oz.  
**51 C 292. NET.....7.2c**



### QUAM FOCALIZER UNIT

**Type QF-4.** For easy focusing and centering of raster. Fits all picture tubes with neck diameters of 1½" or larger; for any anode voltage. 1¾x4¼x6". 1 lb.  
**41 C 133. NET.....3.09**



### CLAROSTAR REGULATORS

**Type TVA.** Protects TV sets from line voltage surges. Reduces surge of 140 v., down to 110 v. Plug-in type. For sets using 200-300 watts. Shpg. wt., 5 oz.  
**31 C 085. NET.....2.06**



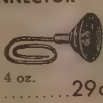
### MILLER ADJUSTABLE ION TRAP

**Model 6295.** Universal single-ion trap. Screw adjust—allows magnetic field to be tried between 32-53 gauss. Uses any single-magnet trap in this gauss range. Extending permits easy installation. Shpg. wt., 6 oz.  
**796. NET.....88c**



### CRT HI-VOLTAGE CONNECTOR

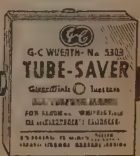
End-anode connector. Silicated, snap-button plug; a perfect contact with the tube. Insulated by diameter rubber cap; 18" rated wire lead. Shpg. wt., 4 oz.  
**347. NET.....29c**



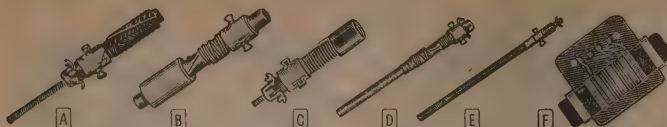
### G-C TUBE-SAVER—TRIPLES TUBE LIFE

**Model 5303.** A highly effective device for extending the tube life of television sets, high-fidelity music systems, radios and other electronic equipment. Completely safe, the tube-saver plugs in quickly and easily to provide constant protection of tubes against sudden surges of voltage—actually triples tube life for year-round savings. Features "Thermal cushioning" action to prevent damage to tubes when set is turned on—minimizes servicing and replacement costs. Tube-saver plugs into wall outlet; set plugs into tube-saver. 2½x2½x1½". For incal AC-DC. Shpg. wt., 7 oz.  
**80 C 146. List \$4.95. NET.....2.91**

**Model 5304.** For color TV sets; 250-400 watts. Shpg. wt., 12 oz.  
**80 C 149. List \$5.95. NET.....3.50**



# AM Antennas, Antenna Kits, TV Tuner



## SUPEREX HIGH-GAIN LOOPSTICK ANTENNAS

A complete selection of low-cost, high-efficiency, ferrite-core antennas. Ideal for replacing old-fashioned loop antennas. Feature extremely high gain, stable performance and uniform response. Will greatly improve signal to noise ratio. Reception is equally sensitive from all directions. Easily mounted. Tune 540 to 1600 kc (AM broadcast band) with 365 or 410 mfm tuning capacitor.

**A** VLT-240 Transistor Vari-Loopstick. Has impedance tap, micrometer adjustment. Simplified, one-hole snap-in mounting. For use with 365 mfm or 410 mfm variable tuning capacitor. Size,  $\frac{3}{4}$ x2". Shpg. wt., 4 oz.  
51 C 029. NET. **73c**

**B** Ferri-Loopstick. Excellent low-cost, replacement antenna for AM broadcast receivers. Needs no orientation. Has "Q" of 240-275. Single-hole snap-in mounting. Size,  $\frac{3}{4}$ x2" long. Shpg. wt., 4 oz.  
51 C 036. NET. **44c**

**C** Vari-Loopstick. For AM broadcast receivers, including the smallest portables. Has "Q" of 250. Adjustable ferrite core permits reception. Single-hole snap-in mounting. Size,  $\frac{3}{4}$ x2". Shpg. wt., 4 oz.  
51 C 034. NET. **59c**

**D** Vari-Tenna. For use with older radio sets equipped with built-in antenna. Features high sensitivity and excellent signal-to-noise ratio. Boosts gain up to 25 times. Single-hole mounting.  $\frac{1}{2}$ x2 $\frac{1}{2}$ ". Wt., 4 oz.  
51 C 032. NET. **73c**

**D** "Energized" Ferri-Loopstick. This 5" Loopstick has a "Q" of up to 350. Extremely high gain brings in weak, distant stations. Adjustable coil with self-locking vinyl collar permits peaking antenna for optimum results. Single-hole mntg. Size,  $\frac{3}{4}$ x5". Wt., 6 oz.  
51 C 038. NET. **88c**

**E** 7" Loopstick. Same as "energized" loopstick described above, but has 7" length for even greater sensitivity. Has "Q" extending up to 425. Shpg. wt., 6 oz.  
51 C 039. NET. **1.32**

**F** High "Q" Transistor Loopsticks. Ideal replacement for most transistor sets. Extremely high "Q". Movable turns and multiple taps; Flat design provides excellent pick-up. All tune 540 to 1600 kc with standard 365 or 410 mfm tuning capacitor. "Direct replacement in many Japanese radios."

| No.      | Type    | $\mu$ H | Size                  | Wt.   | EACH |
|----------|---------|---------|-----------------------|-------|------|
| 51 C 025 | 2FT-240 | 200-265 | 2 $\frac{1}{2}$ "x4"  | 2 oz. | 1.62 |
| 51 C 033 | 2FT-375 | 350-425 | 2 $\frac{1}{2}$ "x4"  | 2 oz. | 1.36 |
| 51 C 026 | 3FT-240 | 200-265 | 3" $\frac{1}{2}$ "x4" | 3 oz. | 1.62 |
| 51 C 027 | 5FT-240 | 175-260 | 5" $\frac{1}{2}$ "x4" | 3 oz. | 1.62 |
| 51 C 028 | 7FT-240 | 175-265 | 7"x4"                 | 4 oz. | 1.76 |

## REPLACEMENT ANTENNA LOOP

Wound on rigid fiberboard form. Has lug terminals. Replaces antenna coil in battery and midget sets or portables. Turns may be removed to match loop being replaced. Overall size, 6x8 $\frac{1}{4}$ ". Shpg. wt., 8 oz.  
51 C 040. 1 to 9, NET EACH. **53c**  
10 or more, EACH. **48c**

## WINDOW LEAD-IN

Soft drawn copper, covered with heavy black cotton braid. Thoroughly weatherproofed. For use with all antennas having single-wire lead-in. Fits under window. Has Fahnstock clips. 12' long by  $\frac{1}{8}$ " wide. Wt., 2 oz.  
51 C 050. NET. **19c**

## ALL-PURPOSE SERVICE CORD

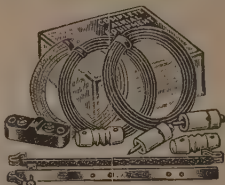
**Female Type.** One flexible brown cord to service most TV sets. Plug one end into wall outlet; other end has duplex AC receptacle with 2 connectors for attaching to TV connection; other metal Zenith connection. 6 ft. long. Shpg. wt., 1 lb.  
52 C 665. NET. **1.10**

## PERMA-POWER MODEL D-200 AUTOMATIC VOLTAGE REGULATOR

Maintains normal operating voltage on TV sets, hi-fi systems, fans, power tools, etc., used on overloaded circuits or in areas with low line voltage conditions. Automatically boosts voltage 10 volts whenever line goes below 110 volts. Eliminates picture shrinking, flutter, and loss of brightness due to low line voltage. Plugs into standard AC outlet; appliance plugs into regulator. Unit turns on and off with set. For up to 300 watts.  $\frac{1}{2}$ x4 $\frac{1}{2}$ x2 $\frac{1}{2}$ ". Shpg. wt., 2 $\frac{1}{2}$  lbs.  
62 C 243. NET. **5.85**

Model D101 Line Voltage Regulator. As above, but has 3-pole selector switch for boosting or lowering voltage. Plugs into AC outlet; appliance plugs into regulator. 2 $\frac{1}{2}$  lbs.  
80 C 186. NET. **4.09**

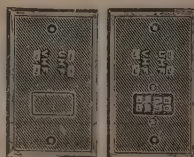
## DELUXE BC-SW ANTENNA KIT



Handy antenna kit for broadcast and short wave reception. Increases "pulling power" of any set. Includes 100 ft. #26 bare copper antenna wire; 40 ft. rubber covered lead-in; 25 ft. rubber covered ground wire; 2 porcelain insulators; 1 window lead-in; 1 lightning arrester; 2 porcelain nail knobs; 1 ground clamp and full instructions. Shpg. wt., 2 $\frac{1}{2}$  lbs.  
83 C 101. NET. **2.04**

Standard BC-SW Antenna Kit. 50 ft. #26 bare copper wire; 25 ft. lead-in; 2 antenna insulators; 2 nail knob insulators; 1 window lead-in and 1 ground clamp. Shpg. wt., 1 $\frac{1}{2}$  lbs.  
83 C 100. NET. **1.03**

## CINCH-JONES TV WALL PLATES



Low-loss wall outlets for UHF and VHF TV antenna twin lead-ins. WP1-8 and WPB-8 also have 8-wire rotor outlets. WP1 and WPB have knock-out panel for inserting Cinch-Jones P-308-AB sockets if rotor is added later. Fit standard outlet box or attach to wall. With mtg. screws. Less plugs, below. Shpg. wt., 7 oz.

| Stock No. | Fig. | Type  | Color | NET  |
|-----------|------|-------|-------|------|
| 40 C 826  | G    | WPI   | Ivory | .98  |
| 40 C 827  | G    | WPB   | Brown | .98  |
| 40 C 828  | H    | WPI-8 | Ivory | 1.58 |
| 40 C 829  | H    | WPB-8 | Brown | 1.58 |

40 C 831. Type TVP-2 Two-Prong Plug. For all plates above. Shpg. wt., 2 oz. NET. **22c**

40 H 874. Type P-308-AB Rotor Plug. For WP1-8 and WPB-8. Shpg. wt., 3 oz. NET. **40c**

## CONSOLIDATED ANTENNAS



### MODEL 615 LONG WAVE, SHORT WAVE & BC ANTENNA KIT

An excellent antenna kit for all-wave reception. Contains all wire and parts for any one of the following antennas: balanced doublet; doublet; inverted-L; Includes: 100 ft. of bare antenna wire; 50 ft. of insulated transmission line; 4 insulators; 2 bakelite screw eyes; double lightning arrester; lead-in strip; and ground clamp. Complete with assembling instructions. Shpg. wt., 3 $\frac{1}{4}$  lbs.  
51 C 263. NET. **4.26**

### MODEL 635 DOUBLET ANTENNA



A highly efficient doublet antenna. Provides excellent short-wave, long-wave, and broadcast band reception. Doublet sections are tuned to provide uniform response throughout the 16-49 meter short-wave band. Kit contains: 2-30 ft. coils of #26 bare copper wire; 50 ft. of twisted and braided transmission wire; 10 ft. of ground wire; 3-3" glass insulators; ground clamp; porcelain lead-in tube; 2 porcelain nail-knobs; and easy-to-follow installation instructions. Shpg. wt., 3 $\frac{1}{4}$  lbs.  
51 C 264. NET. **3.72**

## COPPERWELD ANTENNA WIRE

High-quality, copperweld antenna wire. Features copper outer conductor and steel core. May also be used for guying antenna towers and masts.

| Stock No. | Gauge | Feet | Wt., Lbs.       | EACH  |
|-----------|-------|------|-----------------|-------|
| 49 T 133  | 12    | 100  | 2               | 2.69  |
| 49 T 134  | 12    | 250  | 5               | 6.50  |
| 49 T 140  | 14    | 100  | 1 $\frac{1}{2}$ | 2.37  |
| 49 T 141  | 14    | 250  | 3               | 5.12  |
| 58 T 318  | 18    | 250  | 2               | 1.47  |
| 58 T 317  | 18    | 500  | 3               | 2.94  |
| 58 T 315  | 18    | 3000 | 18              | 14.48 |

## STANDARD COIL TUNER

Model GG-2220 "Guided Grid" Neutrode Replacement Tuner. Replaces tuners with 6.5 volt, parallel connected heaters and 21-mc cascade tuners. Features neutralized triode circuit to provide substantial improvements in gain, signal-to-noise ratio, and general performance. Uses new 6ERS RF amplifier and 6CG8A oscillator-mixer. Printed circuit board. Has improved filter circuits and shielding, greatly reduced oscillator drift and radiation. RF frequency is produced at factory to 21.25 mc sound and 25.75 mc video; can be adjusted over a wide range to suit specific installation requirements. Requires 125-145 v. DC plus heater voltage. Includes set of mounting brackets to adapt to standard mtg. centers. Shpg. wt., 3 lbs.  
60 C 229. NET. **21.07**

## TYPE 31M-213 TV TUNER STRIPS

Replace original Standard Coil strips. Set includes antenna and oscillator (channels 2-13 only). Specify channel number required and tuner series letter stamped on original strips, 4 oz.

| Stock No. | For Series | Stock No. | For Series |
|-----------|------------|-----------|------------|
| 60 CC 322 | F          | 60 CC 325 | Q          |
| 60 CC 323 | H          | 60 CC 326 | R          |
| 60 CC 324 | K          | 60 CC 328 | U          |

NET EACH. **2.19**





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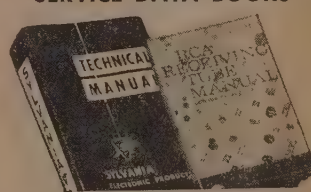
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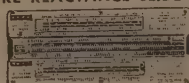
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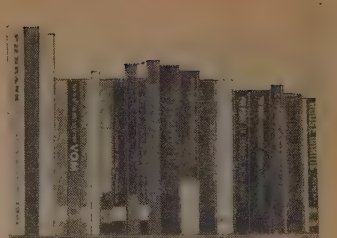
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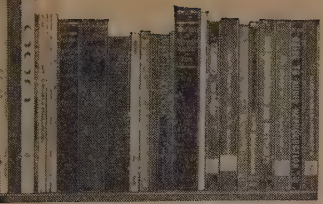
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# IT'S EASY TO ORDER FROM ALLIED

## SHIPPING INFORMATION AND HOW TO ESTIMATE CHARGES

**PARCEL POST:** Size and weight limits will vary depending on your postal zone from Chicago and the type of post office area in which you live. Items not mailable are identified by "U" or "Z" in our stock numbers. See explanation in column at left. Please send enough money to cover merchandise, postage and insurance on parcel post orders. Catalog gives approximate shipping weights. If you send too much, we will refund every penny not used. In case of insufficient remittance we ship C.O.D. for balance. To protect you we insure all parcel post with a dependable private insurance company. Allow for insurance:

|                         |                            |                             |
|-------------------------|----------------------------|-----------------------------|
| Up to \$5.00.....5c     | \$10.01 to \$25.00.....15c | \$50.01 to \$100.00.....30c |
| \$5.01 to 10.00.....10c | 25.01 to 50.00.....20c     | 100.01 to 200.00.....35c    |

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The letter "U" or "Z" in our stock numbers (as in 35 DU 717 or 91 CZ 331) identifies items which are fragile or exceed parcel post size or weight limits. We ship such items by express, truck or the best low cost method. ("U" items will be shipped by package delivery truck in Chicago and Zones 1 and 2, at Parcel Post rates.)

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The best way to send money is by post-office or express money order, bank draft or check. Avoid sending coin or currency, but if necessary, be sure to register your letter. Please do not remit in stamps. For rush handling, telegraph your order and money.

### ABOUT C.O.D. ORDERS

You will save money by avoiding C.O.D. orders. The Post Office charges a C.O.D. collection fee and also a money order fee for forwarding the C.O.D. amount to us. Similar fees are collected on express and freight C.O.D. shipments. It will pay you to remit in full and save the C.O.D. charges. If a C.O.D. shipment is unavoidable, your order should be for a minimum of \$5.00, with a deposit of at least 20%. Please include full remittance with any orders for less than \$5.00.

### PARCEL POST C.O.D. FEES

|                        |                             |
|------------------------|-----------------------------|
| 0.01 to \$5.00.....40c | \$50.01 to \$100.00.....90c |
| 5.01 to 10.00.....50c  | 100.01 to 200.00.....1.10   |
| 10.01 to 25.00.....70c | 200.01 to 200.00.....1.10   |
| 25.01 to 50.00.....80c |                             |

### MONEY ORDER FEES

|                                |
|--------------------------------|
| from \$0.01 to \$10.00.....20c |
| from 10.01 to 50.00.....30c    |
| from 50.01 to 100.00.....35c   |

### HOW TO ESTIMATE PARCEL POST CHARGES

Up to 16 ounces, all zones, allow 3c for first 2 ounces, 1½c for each additional ounce

The post office charges a fraction of a pound as a full pound. For example, if the total weight is 5 pounds and 1 ounce to Zone 4, postage would be for 6 pounds (70¢).

| WEIGHT<br>1 Lb. and Not<br>Exceeding | Chicago   | 1st & 2nd<br>Zone, up to<br>150 mi. | 3rd Zone<br>151 to 300 mi. | 4th Zone<br>301 to 600 mi. | 5th Zone<br>601 to 1000 mi. | 6th Zone<br>1001 to 1400 mi. | 7th Zone<br>1401 to 1800 mi. | 8th Zone<br>Over<br>1800 mi. |
|--------------------------------------|-----------|-------------------------------------|----------------------------|----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|
| 2                                    | \$0.24    | \$0.33                              | \$0.35                     | \$0.39                     | \$0.45                      | \$0.51                       | \$0.58                       | \$0.64                       |
| 3                                    | .26       | .38                                 | .41                        | .47                        | .55                         | .64                          | .74                          | .83                          |
| 4                                    | .28       | .43                                 | .47                        | .55                        | .65                         | .77                          | .90                          | 1.02                         |
| 5                                    | .30       | .48                                 | .53                        | .63                        | .75                         | .90                          | 1.06                         | 1.21                         |
| 6                                    | .32       | .53                                 | .59                        | .70                        | .85                         | 1.03                         | 1.22                         | 1.40                         |
| 7                                    | .34       | .58                                 | .65                        | .77                        | .95                         | 1.16                         | 1.38                         | 1.59                         |
| 8                                    | .36       | .63                                 | .71                        | .84                        | 1.05                        | 1.29                         | 1.54                         | 1.78                         |
| 9                                    | .38       | .68                                 | .77                        | .91                        | 1.15                        | 1.42                         | 1.70                         | 1.97                         |
| 10                                   | .40       | .73                                 | .83                        | .98                        | 1.25                        | 1.55                         | 1.86                         | 2.16                         |
| 11                                   | .42       | .77                                 | .89                        | 1.05                       | 1.35                        | 1.67                         | 2.02                         | 2.34                         |
| 12                                   | .44       | .81                                 | .95                        | 1.12                       | 1.45                        | 1.79                         | 2.18                         | 2.52                         |
| 13                                   | .46       | .85                                 | 1.01                       | 1.19                       | 1.55                        | 1.91                         | 2.34                         | 2.70                         |
| 14                                   | .48       | .89                                 | 1.07                       | 1.26                       | 1.65                        | 2.03                         | 2.50                         | 2.88                         |
| 15                                   | .50       | .93                                 | 1.13                       | 1.33                       | 1.75                        | 2.15                         | 2.66                         | 3.06                         |
| 16                                   | .52       | .97                                 | 1.18                       | 1.40                       | 1.85                        | 2.27                         | 2.81                         | 3.24                         |
| 17                                   | .54       | 1.01                                | 1.23                       | 1.47                       | 1.95                        | 2.39                         | 2.96                         | 3.42                         |
| 18                                   | .56       | 1.05                                | 1.28                       | 1.54                       | 2.05                        | 2.51                         | 3.11                         | 3.60                         |
| 19                                   | .58       | 1.09                                | 1.33                       | 1.61                       | 2.15                        | 2.63                         | 3.26                         | 3.78                         |
| 20                                   | .60       | 1.13                                | 1.38                       | 1.68                       | 2.25                        | 2.75                         | 3.41                         | 3.96                         |
| 21                                   | .62       | 1.17                                | 1.43                       | 1.75                       | 2.34                        | 2.87                         | 3.56                         | 4.14                         |
| For Each<br>Extra Lb.                | Add<br>2¢ | Add<br>4¢                           | Add<br>5¢                  | Add<br>7¢                  | Add<br>9¢                   | Add<br>12¢                   | Add<br>15¢                   | Add<br>18¢                   |

Over 20 pounds shipped express or truck. See below.

**TRUCK AND RAIL FREIGHT:** Freight is the cheapest form of transportation on the heavier shipments (minimum charge is for 100 lbs). Truck shipment is especially economical on shipments of about 70 lbs. or more. The approximate truck freight charges shown below will differ in various sections of the country. Freight charges are collected on delivery.

### HOW TO ESTIMATE TRUCK FREIGHT CHARGES

| Minimum<br>Charge<br>100 Lbs. | Maximum Distance in Miles |      |      |      |      |      |      |
|-------------------------------|---------------------------|------|------|------|------|------|------|
|                               | 50                        | 150  | 300  | 500  | 750  | 1000 | 1600 |
| For each<br>Extra Lb.         | 4.41                      | 4.41 | 4.68 | 4.94 | 5.20 | 6.46 | 8.38 |
|                               | 2¢                        | 3¢   | 3¢   | 4¢   | 4¢   | 5¢   | 8¢   |

**EXPRESS:** Please remit full amount for merchandise, but do not send any money for express charges with your order. Shipping charges are collected on delivery at no extra cost to you. All "U" and "Z" items (see column at left) are usually shipped by express or truck. In addition, to assure safe arrival, we ship by express many hi-fi units, transmitting and TV tubes, test units, and other fragile merchandise.

### HOW TO ESTIMATE EXPRESS CHARGES

(Rates are about 10% higher to eastern states.)

| Weight in<br>Pounds  | Mileage |      |      |       |       |       |       |       |
|----------------------|---------|------|------|-------|-------|-------|-------|-------|
|                      | 50      | 150  | 300  | 500   | 750   | 1000  | 1500  | 2250  |
| 5                    | 2.77    | 2.83 | 2.92 | 3.04  | 3.10  | 3.16  | 3.23  | 3.30  |
| 10                   | 2.85    | 3.01 | 3.20 | 3.43  | 3.56  | 3.66  | 4.00  | 4.23  |
| 15                   | 2.95    | 3.20 | 3.47 | 3.80  | 4.01  | 4.17  | 4.68  | 5.17  |
| 20                   | 3.05    | 3.38 | 3.75 | 4.20  | 4.26  | 4.68  | 5.37  | 6.11  |
| 25                   | 3.16    | 3.46 | 4.01 | 4.49  | 4.94  | 5.20  | 6.04  | 7.04  |
| 35                   | 3.35    | 3.93 | 4.58 | 5.37  | 5.64  | 6.20  | 7.40  | 8.91  |
| 45                   | 3.53    | 4.28 | 5.13 | 6.14  | 6.77  | 7.22  | 8.76  | 10.81 |
| 55                   | 3.73    | 4.66 | 5.67 | 6.92  | 7.67  | 8.23  | 10.11 | 12.69 |
| 70                   | 4.03    | 5.21 | 6.48 | 8.07  | 9.04  | 9.77  | 12.15 | 15.49 |
| 80                   | 4.25    | 5.58 | 6.85 | 8.85  | 10.05 | 10.77 | 13.51 | 17.29 |
| For each<br>100 Lbs. | 4.66    | 6.29 | 8.15 | 10.42 | 11.77 | 12.81 | 16.24 | 21.13 |

**AIR SHIPMENTS:** We will ship your order by Air Parcel Post, Air Express or Air Freight if you instruct us to do so. Air Parcel Post rates are given below. Consult your local express office for Air Express charges, and your nearest commercial airport office for Air Freight rates. Air Parcel Post size and weight limits are 70 lbs. and 100", length and girth combined.

### AIR PARCEL POST RATES

(7c per ounce, up to 8 ounces)

| ZONES                 | 1, 2 & 3   | 4          | 5          | 6          | 7          | 8          | U. S. Territories,<br>Possessions and<br>APO & FPO Addresses,<br>80c per lb. |
|-----------------------|------------|------------|------------|------------|------------|------------|------------------------------------------------------------------------------|
| 1st Lb.               | 60c        | 65c        | 70c        | 75c        | 75c        | 80c        |                                                                              |
| For Each<br>Extra Lb. | Add<br>48¢ | Add<br>50¢ | Add<br>56¢ | Add<br>64¢ | Add<br>72¢ | Add<br>80¢ |                                                                              |

# IMPORTANT ORDER INFORMATION

Every item you buy from us must satisfy in every way—or we want you to return it to us for exchange, repair or refund. See Page 1 for full details of our guarantee which protects you on every purchase. Your complete satisfaction is guaranteed.

**ALLIED'S  
GUARANTEE  
TO YOU**

## CASH TERMS

Our general terms of sale are cash with order. You save payment of C.O.D. fees by including full remittance with your order. Every penny not used is refunded. If desired, we will ship C.O.D. See opposite page for C.O.D. orders.

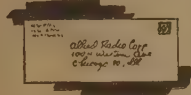
## CREDIT FUND TERMS

Increase your buying power with an Allied Credit Fund Account. No money down—up to 24 months to pay. Add-on orders require only your signature. Your application form is on the back of our order blanks. See page 360 for details.

## OPEN ACCOUNTS

We ship on open account to well-rated firms, schools, institutions and government agencies. Firms without a published rating may apply for an open account by submitting either trade or bank references. Terms are net, 10 days, E.O.M.

## IF IT IS NECESSARY TO WRITE TO US . . .



On cash and Credit Fund orders, we return your original order and all related papers. Our billing forms explain how your order was handled and priced. If you find it necessary to write us, please include all order papers and correspondence that apply. If you do not have the order papers, be sure to give in detail the stock numbers and descriptions of the items ordered and the same name and address as on your original order. On Open Account orders, only your invoice number is necessary.

## HOW TO RETURN MERCHANDISE

Please include your instructions with your shipment, pack the merchandise carefully and insure.

On parcel post, place your instructions, all order papers and correspondence in an envelope inside your package. On the outside, mark "First Class Mail Enclosed" and affix additional four cents postage for the enclosure.

On express shipments, place all papers in a stamped and sealed envelope inside the package. Date this envelope and draw several lines across postage stamp with a pen.

Your name and address should be plainly marked on the envelope you have enclosed, as well as on the outside of your package.

## ABOUT OUR PRICES

**You Pay NET Catalog Prices.** Catalog prices are net, f.o.b. Chicago, except where otherwise indicated. All trade and applicable cash discounts have already been deducted from every price. Our NET catalog prices are the prices you pay on shipments to the United States, Canada and Puerto Rico. (See "Export Prices" below.)

**Your Order is Shipped at the Current Price.** Prices in this book replace prices in all previous Allied catalogs and are subject to change without notice. *Orders will be filled at prices in effect at time of shipment.*

**You Get Immediate Benefit of Any Price Reductions.** If prices are reduced during the life of this catalog, we always give you the advantage of the lower prices and refund the difference. We reserve the right to add any Federal, State or Local taxes now in effect or which may be levied after this catalog is printed.

**List Prices.** Any list prices shown in this catalog are those which have been suggested by our suppliers and are not our list prices, nor our selling prices. List prices are not shown to indicate price savings, but are for the information of customers who purchase for resale. Our NET catalog prices are the prices you actually pay.

**Export Prices.** All prices and terms shown in this catalog apply only to residents of the United States, Canada and Puerto Rico. For prices and terms to other countries, please write to our Export Department.

## TELEPHONE ORDERS

**Phone: HAYmarket 1-6800**

We have a specially trained staff to handle your telephone orders. If you are in a hurry for any merchandise, telephone your order. It will be filled and shipped promptly. For extra-fast service, specify Air Shipment (see opposite page).



## VISIT OUR CENTRAL SALESROOMS AND HI-FI STUDIOS

Salesrooms where you can obtain all merchandise listed in this catalog, as well as High-Fidelity demonstration studios, are located in our main building at 100 N. Western Ave. You are invited to come in to see us. Enjoy a thrilling Hi-Fi demonstration, check the Knight-Kits wired for your inspection, and examine tape recorders, tools, test instruments, sound equipment, and the great variety of other merchandise we have on display.

Our location at Western Avenue and Washington Blvd. is only a short distance from Chicago's Loop.

**HOURS: Monday and Thursday, 9:00 A.M. to 9:00 P.M.**

Other weekdays, and Saturday, 9:00 A.M. to 5:30 P.M.

Sundays, 11:00 A.M. to 5:00 P.M.



**100 N. WESTERN AVE.  
CHICAGO 80, ILL.**



# Power Supplies, Converters & Rectifiers

## MALLORY POWER SUPPLIES

### 6 AND 12-VOLT BATTERY CHARGERS

Highly efficient selenium-rectifier battery chargers. May also be used as power supplies for electroplating, model trains, telegraph systems, vending machines, relays, solenoids, etc. Charging rate decreases as battery becomes charged. Equipped with socket for use with R675 charging cord listed below. Complete with DC cord and battery clips for quick connection. Pilot light dims as battery becomes charged and blinks if charger connections are shorted or reversed. Type 6SAC6 for 6-volt batteries, 25ACS for 12-volt. For operation from 105-125 volts, 60 cycle AC.



| Stock No. | Mfr's Type | DC Amps Max Taper | Max. DC Amps Continuous | Size H. W. D.         | Wt. Lbs. | List    | NET EACH |
|-----------|------------|-------------------|-------------------------|-----------------------|----------|---------|----------|
| 30 F 093  | 6SAC6      | 6 4               | 5                       | 6 7/8 x 6 1/2 x 4 1/2 | 6        | \$22.99 | 14.99    |
| 30 F 087  | 12ACS      | 6 4               | 4                       | 7 1/2 x 6 1/2 x 5 1/2 | 9        | 33.55   | 22.18    |

32 P 643. Type R675 Universal Lighter Plug and Cord. For charging battery through cigarette lighter, 6 ft. cord, 6 oz. NET.....1.47

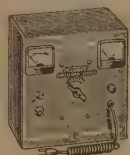
### 12RS6DF BENCH POWER SUPPLY

Dual-range power supply for servicing car, truck and transistor radios. Range "A" supplies 0-10 v. DC and 0-20 amps continuous, or 14 amps intermittent. Range "B" provides 0-8 v. at 10 amps continuously or 20 amps intermittent. 2 1/2 voltmeter and ammeter; range 0-15 v. DC and 0-20 amps DC. Provision for plugging in external ammeter. Includes built-in filter pack—provides filtered output up to 6 amps at less than 0.5% ripple; 6 volts at less than 1 v. rms ripple; 12 volts at less than 0.5 v. rms ripple. With automatic over-load protection. Handy front panel wing nuts, two keyhole slots for wall mounting. Ventilated for trouble-free, cool-running operation. 6 1/2 x 10 1/2 x 1 1/2". For 110-120 v., 60 cycle AC. Wt., 12 1/2 lbs. 30 FX 291, No Money Down. NET.....58.75



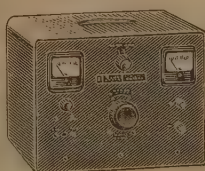
### 2RS14D "RECTOPOWER" BENCH SUPPLY

Efficient versatile power supply. Provides filtered and continuously adjustable power for electronic equipment operating on 6 or 12 volts. Supplies 6 volts at 25 amps continuous or 40 amps intermittent; 12 volts at 14 amps continuous or 20 amps intermittent. Automatic voltage range selector maintains constant output under varying load. Includes DC voltmeter and DC ammeter. Overload protection. Has large-capacity electrolytic capacitors that provide power storage for operation of vibrator powered equipment. Uses selenium rectifier. Output regulation 20% at 6 v; 1%; 8% at 12 volts; no load to full load. Sturdy, well ventilated cabinet provided with 4 rubber feet. Overall size, 11 1/2 x 10 1/2 x 3 1/2". For operation from 110-120 volts, 50-60 cycle AC. Wt., 35 lbs. 30 FX 132, No Money Down. NET.....136.71



## KNIGHT 505 POWER SUPPLY

Heavy-duty DC power supply and battery charger. Ideal for testing auto radios as well as Amateur and commercial mobile radio equipment, and for servicing portable transistor radios. Continuously variable output from 0-16 v. or 0-15 volts. Dual filter for low-ripple output. Supplies 15 amps at 10 volts, 10 amps at 12 volts continuous; 17.5 amps at 6 volts, 12.5 amps at 2 volts intermittent. Provides simultaneous metering of current and voltage. 8 3/4 x 12 7/2". For 105-125 v., 60 cycle AC. Shpg. wt., 18 lbs. 37 YX 505, NET.....47.95



33 YX 129, As above, but in easy-to-build kit form. NET.....37.95

## PERMA-POWER RADIO BATTERY ELIMINATOR

Model "A". Converts battery radios, etc. to 110v. AC operation. Selenium rectifiers for well-filtered DC output. "A" power: 1.35-1.5 v. DC. "B" power: 0v. DC at 13 ma. Fits in battery compartments of most radios. Large variety of sockets. 2 1/2 x 6 1/2 x 4 1/2". U.L. approved. For 105-125 VAC. Wt., 4 lbs. 30 F 176, NET.....12.40



## MALLORY DRY-DISC RECTIFIERS

Magnesium-copper sulphide rectifiers for use in low voltage DC power supplies. Used in battery chargers, eliminators, model train power supplies, etc. Single-phase full-wave bridge type. Operate from -90° to +265° F.

| Stock No.      | Mfr's Type | ACV/DCV/Cont. Input/Output | Size H. W. D.         | Replacement in Equipment | Wt. Lbs. | NET EACH    |
|----------------|------------|----------------------------|-----------------------|--------------------------|----------|-------------|
| 56 F 124 (B4)  | 3 2 1 1 15 | 3 2 x 1 1/2 x 1 1/2        | 1 1/2 x 1 1/2 x 1 1/2 | GTC Battery Eliminator   | 1/4      | \$2.90 1.89 |
| 56 F 175 (B3)  | 3 2 1 1 15 | 3 2 x 1 1/2 x 1 1/2        | 1 1/2 x 1 1/2 x 1 1/2 | GTC Battery Eliminator   | 1/4      | 3.45 2.25   |
| 56 F 176 (B2)  | 9 7 52 13  | 3 1/2 x 1 1/2 x 1 1/2      | 1 1/2 x 1 1/2 x 1 1/2 | Electric Fence Supplies  | 1/4      | 3.95 2.59   |
| 56 F 170 (B2C) | 9.8 5.1 32 | 1 1/2 x 1 1/2 x 1 1/2      | 1 1/2 x 1 1/2 x 1 1/2 | Mallory 3C, 6A4A Booster | 1/4      | 7.25 4.74   |

## ELECTRO-PRODUCTS POWER SUPPLIES



### MODEL KP-2 DC POWER SUPPLY KIT

A highly efficient, easy-to-build unit. Two output ranges with separate current meters and output terminals. Delivers 0-20 volts at 75 ma and 0-16 volts at 5 amps. Variable transformer for smooth voltage adjustment. Special pi-type filter. Includes fused primary. With assembly instructions. Sturdy metal case. 8 1/2 x 8 x 5 1/2". For 110-120 v., 50-60 cycle AC. Shpg. wt., 15 lbs. 80 FX 038, No Money Down. NET.....44.95

Model PS-2. Same as above, but factory wired and tested. 80 FX 039, No Money Down. NET.....56.00

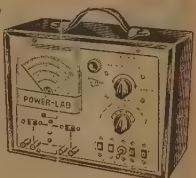
### MODEL D-612T DC POWER SUPPLY

DC power supply for servicing auto radios, battery charging, etc. Two to ten variable output ranges (0-8 volts and 0-16 volts, 0-10 amps at 12 volts. Up to 100% intermittent overload. Less than 1/2% ripple at 5 amps. Selenium rectifiers feature conduction cooling. Constant metering of voltage and current. 2-pos. range switch; panel-mounted fuse holder. Wing nut output terminals. Rugged blue hammerhead steel cabinet. 7 x 12 x 8 1/2". For 110-120 v., 50-60 cycle AC. Shpg. wt., 22 lbs. 80 FX 283, No Money Down. NET.....59.95

## PORTABLE POWER SUPPLIES

### PRECISE MODEL 713-K POWER LAB

Versatile bench-type power supply. Available in kit form or completely wired and tested. Combined variable low and high voltage AC and DC supply, wattmeter, voltmeter, AC-DC ammeter, and isolation transformer. Ratings: 0.30v. DC, 10 amps; 110-180 v., 75 amps; 0-20 v. DC, 20 amps; 90-140v. 10 amps (1000 watts continuous) and 20 amps (2000 watts intermittent) (no isolation); and 90-140v., 3 amps, 300 watts (variable isolation) except models 711K and 711W which are rated 1000 watts with isolation. For 110-120 v., 60 cycle AC. Size: 12 x 8 1/2 x 5 1/2". 83 FU 904, Model 713K, 300 watt kit. Wt., 22 lbs. NET.....62.95



87 FU 266, Model 713W. As above, but factory wired. NET.....79.95

83 FU 903, Model 711K, 100 watt kit. Shpg. wt., 15 lbs. NET.....49.95

87 FU 265, Model 711W. As above, but factory wired. NET.....64.95

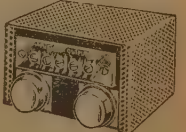
### SENCOR MODEL PS-103 "TRANSI-PAK"

Low-cost DC power supply especially designed to replace batteries of transistor radios during repair. Furnishes variable DC from 0 to 24 volts with 1.5-volt biasing tap (to aid in servicing Philco and Sylvania transistor portables). Provides continuously metered current output up to 100 ma (200 ma on peaks). No hum or feedback—employs heavy-duty selenium rectifier and two 200-mfd capacitors for filtering and low output impedance. 5 1/2 x 4 1/2 x 2 1/2". With lens. For operation from 110-120 v., 60 cycle AC. Shpg. wt., 2 lbs. 83 F 985, NET.....19.55

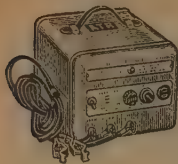


## KUPFRIAN TRANSISTORIZED POWER SUPPLY

Model CA-1252-10. High-efficiency transistorized power supply that is mechanically and electrically quiet. Requires no warm up, resists shock and vibration. Converts 12 v. DC to high voltage DC. Ripple: 0.4% 100 v. Efficiency: often exceeds 80%. Output: 0-250 v. DC at 200 ma. or 250 v. DC at 400 ma. Only 3 1/2 x 4 x 2 1/2". Shpg. wt., 2 lbs. 77 F 780, NET.....54.00



# Inverters and Power Supplies



## ATR QUALITY INVERTERS AND POWER SUPPLIES

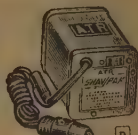
### DC TO AC UNIVERSAL INVERTERS

- Ruggedly Constructed
- Completely Suppressed Against RF Interference
- Exceptionally Stable

Universal inverters for operating 110-volt, 60 cycle AC equipment from DC voltages in autos, buses, trucks, boats, trains, planes and DC districts.

For standard 110-volt AC tape recorders, TV sets, radios, PA systems, electric razors, test equipment, etc. Carefully engineered and constructed for long life operation. Operating efficiency in excess of 75%. Four-point voltage regulator corrects output voltage for minimum and maximum loads, and also helps compensate

for input voltages lower or higher than normal. Recommended for use with loads having power factors in excess of 70%. Not recommended for large motor driven appliances such as refrigerators, washing machines, etc. All have On-Off switches. In gray hammerloid metal cabinet with carrying strap. Sizes: Standard Model RSG, 8 1/2 x 9 1/2 x 5 1/4"; Extra-Heavy-Duty Model RHG, 6 1/2 x 11 1/2 x 8 1/2"; Extra-Heavy-Duty Model HSG, 6 1/2 x 12 1/2 x 8 1/2". With battery clips; model with "B" suffix has adapter cord for auto cigarette lighter receptacles. \*Recommended for 24-volt battery operation. Before ordering, check wattage rating of equipment inverter will be used with.



### 6-12 V. DC POWER SUPPLIES

**A Type 610C-ELIF.** Features either 6 volts @ 10 amperes continuous, or 12 volts @ 6 amperes continuous. Has voltmeter and ammeter. Toggle switch selects 6 or 12 volts output. 8-position voltage selector control. For 105-125 v., 50-60 cycle AC. Gray steel case, 6 1/2 x 9 1/2 x 8 1/4". Shpg. wt., 22 lbs.  
80 FU 620C. No Money Down. NET...48.95

**A Type 620C-ELIT.** Heavy-duty model. Uses dual rectifiers—full wave assures noiseless operation. Rated output: 6 volts at 20 amperes or 12 volts at 10 amperes. Has voltmeter and ammeter. Gray steel case with handle. 8-position voltage selector control. Size, 6 1/2 x 12 1/2 x 8 1/4". For 105-125 volts, 50-60 cycle AC. Shpg. wt., 38 lbs.  
80 FU 234. No Money Down. NET...65.61

### 6 AND 12 V. SHAV-PAKS

**B** Miniature inverters that operate standard AC electric shavers from 6 and 12-volt storage batteries in autos, buses, trucks, boats and planes. Plugs into cigarette lighter receptacle. Both 6 and 12-volt models provide 115 volts 60 cycle AC output at 15 watts. Hammerloid steel case, 4 1/2 x 2 1/2 x 3 1/4". Shpg. wt., 2 1/2 lbs.  
81 F 944. 6-SPB. 6 volts \$11.95 7.81  
81 F 945. 12-SPB. 12 volts 11.95 7.81



### 6-12 V. BATTERY CHARGER

**Model 612CA6.** Charges 6 or 12-volt storage batteries through cigarette lighter receptacle of any vehicle. 6 amp charge rate tapers to 3 amp in 24 hours. Eliminates need for fuses. For use in negative- and positive-ground vehicles. 8 1/2 x 5 1/2 x 3 1/4". For 110-120 v., 50-60 cycle AC. Shpg. wt., 9 lbs.  
81 F 946. List, \$29.95. NET...22.01

| Stock No. | Mfr's Type | Input DC Volts | Output 60 Cycle | Watts Cont. | Watts Inter. | Wt., Lbs. | List    | NET EACH |
|-----------|------------|----------------|-----------------|-------------|--------------|-----------|---------|----------|
| 81 FU 924 | 6U-RHG     | 6              | 110 v.          | 125         | 150          | 22        | \$99.50 | 65.01    |
| 81 FU 926 | 12U-RSF    | 12             | 110 v.          | 100         | 125          | 22        | 75.00   | 49.00    |
| 81 FU 927 | 12U-RSF-P  | 12             | 110 v.          | 100         | 125          | 22        | 75.00   | 49.00    |
| 81 FU 928 | 12U-RHG    | 12             | 110 v.          | 150         | 175          | 27        | 99.50   | 65.01    |
| 81 FU 929 | 12U-HSJ    | 12             | 110 v.          | 200         | 250          | 37        | 125.00  | 81.67    |
| 81 FU 930 | 28U-RSF*   | 28             | 110 v.          | 100         | 125          | 22        | 89.95   | 58.77    |
| 81 FU 931 | 28U-RHG*   | 28             | 110 v.          | 150         | 175          | 27        | 119.50  | 78.08    |
| 81 FU 936 | 110U-RSF   | 110            | 110 v.          | 100         | 150          | 22        | 89.95   | 58.77    |
| 81 FU 937 | 110U-RHG   | 110            | 110 v.          | 150         | 250          | 22        | 75.00   | 49.00    |
| 81 FU 938 | 110A-RSF   | 110            | 110 v.          | 250         | 325          | 27        | 89.95   | 58.77    |
| 81 FU 940 | 110U-HSJ   | 110            | 110 v.          | 400         | 600          | 37        | 145.00  | 94.74    |

### PORTABLE PLUG-IN TYPE DC TO AC INVERTERS



regulator, calibrated for low, medium and high maximum loads. All are for use with loads having power factors over 80%. Check wattage rating of equipment before ordering.

| Stock No. | Mfr's Type | Input DC Volts | Output 60 Cycle | Watts Cont. | Watts Inter. | Wt., Lbs. | List    | NET EACH |
|-----------|------------|----------------|-----------------|-------------|--------------|-----------|---------|----------|
| 80 F 246  | 6-DME      | 6              | 110 v.          | 30          | 40           | 5         | \$24.95 | 16.30    |
| 80 F 289  | 6C-DME     | 6/12           | 110 v.          | 30          | 40           | 5         | 28.95   | 18.91    |
| 80 F 247  | 6-RMF      | 6              | 110 v.          | 40          | 80           | 12        | 49.50   | 32.34    |
| 81 F 941  | 6C-RMF     | 6/12           | 110 v.          | 40          | 80           | 12        | 54.95   | 35.91    |
| 80 F 249  | 12-DME     | 12             | 110 v.          | 60          | 50           | 5         | 24.95   | 16.30    |
| 80 F 266  | 12T-RME    | 12             | 110 v.          | 90          | 125          | 12        | 49.50   | 32.34    |
| 81 F 942  | 28-RME*    | 110            | 110 v.          | 60          | 150          | 12        | 69.50   | 45.41    |
| 80 FX 218 | 110-RME    | 110            | 110 v.          | 100         | 150          | 12        | 59.50   | 38.88    |

## EICO POWER SUPPLIES—KITS AND FACTORY WIRE

### MODEL 1060-K DELUXE BATTERY ELIMINATOR KIT



Battery Charger or Eliminator

For All 6 and 12 Volt Auto Radios

Has 2 Ranges: 0-8 Volts & 0-16 Volts

For operating any auto radio, including transistor models. Features: extra filtering and continuous voltage adjustment by variable transformer; heavy-duty selenium rectifiers; fused primary; automatic reset overload relay in secondary. Low range: 0-8 v. @ 10 amps continuous, 20 amps intermittent; 1.5% ripple at 2 amps, 2% at 6 amps. High range: 0-16 v. @ 6 amps continuous, 10 amps intermittent; 0.5% ripple at 2 amps, 1.5% at 10 amps. Voltmeter range, 0-20 v.; ammeter range, 0-10, 0-20 amps. With case, parts, 8 3/4 x 10 1/2 x 7 3/4". For 105-125 v., 60 cycle AC. 19 lbs.  
83 FX 875. No Money Down. NET...38.95

**MODEL 1060.** As above, but factory-wired.  
83 FU 876. No Money Down. NET...47.95

**MODEL 1050-K BATTERY ELIMINATOR KIT.** For 6 and 12 v. auto radios. Same as Model 1060-K above, but less smoothing filter. Shpg. wt., 15 lbs.  
83 FX 175. No Money Down. NET...29.95

**MODEL 1060.** As above, but factory-wired.  
84 FU 341. No Money Down. NET...38.95

### MODEL 1020-K POWER SUPPLY KIT



- Provides 0-30 VDC Adjustable Output
- Ideal for Laboratory or Service Shop
- Provides A Stable Source of Pure DC

Highly stable, fully transistorized DC power and bias supply. Provides a continuously variable output voltage up to 30 v. Has dual-range voltmeter monitoring output. Well suited for servicing "hybrid" transistor and vacuum tube apparatus or all-transistor equipment. Also useful as a DC filament supply, a bias source, a means of checking the operating voltage or current of high resistance relays, and as a source of pure, ripple-free DC for laboratory purposes.

Maximum continuous output current capacity: 150 ma from 0-12 v.; 200 ma from 12-24 v.; 300 ma from 24-30 v. Uses full-wave silicon diode rectifier circuit with electrolytic capacitor input filter followed by two power transistors in a cascaded filter circuit to provide extraordinary ripple rejection—maximum ripple at full load is only .005%. Fuse protects circuit in case of overload, but pilot lamp remains lit if fuse does blow.

Housed in gray wrinkle steel case with carrying handle. Size, 5 1/2 x 8 1/2 x 7. Solder. For operation from 105-125 volts, 60 cycle AC. Shpg. wt., 4 1/2 lbs.  
83 F 968. No Money Down. NET...19.95

**MODEL 1020.** As above, but factory-wired.  
83 F 969. No Money Down. NET...27.95

### MODEL 1073-K METERED VARIABLE AC BENCH SUPPLY



- Provides 0-140 VAC Adjustable Output
- Has Separate Output Ammeter and Voltmeter

Easy-to-build, laboratory type variable AC bench supply. Invaluable for production line testing, quality control, and service work. Provides an adjustable voltage output from 0-140 volts AC from a 120 volt AC power line input; handles up to 3 amps of current. Precision voltmeter and ammeter, mounted side-by-side, permit simultaneous monitoring of both voltage and current. Ammeter has dual range (0-1, 0-3 amperes); ranges can be switched while unit is operating under load.

Unit incorporates a highly efficient variable auto-transformer of toroidal core design. Auto-transformer and ammeter are protected by separate extractor-post fuses mounted on front panel. Unit is housed in attractive, sturdy steel case, 8 1/2 x 5 1/2 x 7". Supplied with case, all parts, and instructions. For 105-125 v., 60 cycle AC. Shpg. wt., 9 lbs.  
87 FX 354. No Money Down. NET...35.95

**MODEL 1073.** As above, but factory-wired.  
87 FX 355. No Money Down. NET...47.95

**MODEL 1078-K.** Same as Model 1073-K above, but reads 0-250 v. For 105-125 v., 30-60 cycle AC. Wt., 13 lbs.  
87 FX 356. No Money Down. NET...42.95

**MODEL 1078.** As above, but factory-wired.  
87 FX 357. No Money Down. NET...54.95



## TERADO TRANSISTOR DC-TO-AC 60-CYCLE CONVERTERS

00-Watt  
Filtered  
Output

For TV's  
Phonos  
Recorders

50191



Remote Control

**Model 50191 "Continental" with Remote Control.** High-powered transistorized unit converts 12 v. DC to 115 v., 60 cycle AC. Provides continuous 300-watt filtered output—plenty of power for radios, TV sets, amateur radio equipment, public address systems, lights, test equipment, power tools. Perfect for tape recorders, phonographs, and other motor-driven appliances requiring a stable 60 cycle AC supply. Chrome-plated remote control mounts on dashboard—converter may be installed in trunk, out of the way. May be used in boats or airplanes as well as cars and trucks. Remote control has AC plug-in receptacle, variable AC voltage output switch and signal light. No vibrators or other moving parts. Copper-clad finish on steel case, 6x11x6". Includes all plugs and cable for installation. For 12-volt cars. Shpg. wt., 26 lbs.

30 F 043, NET.....114.01

## SCHAUER "KAR-START"

**Model A-8478.** Helps start cars in cold and wet weather—sends 5 times the normal spark through plugs. Has no effect on engine performance—disconnects automatically when engine runs properly. Especially helpful on cars normally parked outside in bad weather. Installs quickly and easily—only three wires to connect. For both 6- and 12-volt battery systems. 2 1/2 x 3 1/2 x 7/8" Shpg. wt., 6 oz.

31 F 069, NET.....4.92

## SCHAUER CHARGER PLUG

**Type A-8412.** Connects plugger to battery by plugging into car's cigarette lighter. May also be used as a plug-in charger for 6-volt to 12-volt converters. For use with 12-volt cars. Shpg. wt., 4 oz.

31 F 059, NET.....1.08



A4612

A-3

**Model A4612.** Compact, 4-ampere, 6-volt and 12-volt battery charger. Recharges the average battery overnight. Has a selector switch for changing from 6-volt to 12-volt operation. Has automatic safeguard provision against short circuits and overloads. 4-ampere charging rate tapers to 2 amperes as battery charges. Ammeter shows charging rate. Has clip terminals. No need to disconnect or remove battery. Size, 6 1/2 x 4 1/2 x 4 1/2". For 110-120 v., 60 cycle AC. Shpg. wt., 4 1/2 lbs.

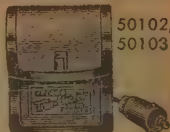
75 F 283, List, \$19.95, NET.....13.20

**Model A3.** Efficient, 6-volt overnight battery charger. Supplied 4-amp to 2-amp charging rate. Includes full-wave charging output which makes possible higher efficiency of operation. Rectifiers are selenium for dependable service. Equipped with built-in "Charger Guard." Pays for itself in longer battery life and protection from battery failure. With cables and clips. Size, 6 1/2 x 4 1/2 x 4 1/2". For 110-120 v., 60 cycle AC. Shpg. wt., 4 lbs.

30 F 161, List, \$13.95, NET.....9.23

## TERADO CONVERTERS & CHARGERS

**Converters.** Convenient DC-to-AC converters for operating 110 v. AC devices from car batteries. Ideal for operating portable TV's, radios, tape recorders, soldering irons, lights, razors, etc. Converter plug fits into cigarette lighter so input, except flip directly to battery terminals with clips provided. \*Has 20-ft. input cord and mtg. bracket. Check equipment wattage requirements and battery voltage before selecting converter. **Chargers.** 1 1/2-amp Tiny Giant for autos and boats. With clips for direct connection to battery terminals; buzzer indicates improper connection. Copper-clad steel case. Pocket-size 5-amp charger is full-wave type with 2 miniature silicon rectifiers. Charges battery through lighter of car, boat or plane with plug supplied; charge indicator light shows battery condition. In steel case. 10-amp charger is similar to 5-amp model, except with ammeter.



50102,  
50103

## CONVERTERS

| Stock No. | Mfr's Type | DC Input |      | Output V., 60 cycles |      | Watts Cont. Inter.    |       | Size  | Wt., Lbs. | NET |
|-----------|------------|----------|------|----------------------|------|-----------------------|-------|-------|-----------|-----|
|           |            | Volts    | Amps | Volts                | Amps | Volts                 | Amps  |       |           |     |
| 80 F 194  | 50102      | 6        | 110  | 10                   | 15   | 2 1/2 x 3 1/2 x 3 1/2 | 2     | 9.12  |           |     |
| 80 F 196  | 50103      | 12       | 110  | 15                   | 20   | 2 1/2 x 3 1/2 x 3 1/2 | 2     | 9.12  |           |     |
| 80 F 272  | 50115      | 6        | 110  | 35                   | 40   | 2 1/2 x 2 1/2 x 4 1/2 | 3 1/4 | 15.66 |           |     |
| 80 F 273  | 50116      | 12       | 110  | 40                   | 50   | 2 1/2 x 2 1/2 x 4 1/2 | 3 1/4 | 15.66 |           |     |
| 80 F 270  | 50126      | 6        | 110  | 60                   | 75   | 6 x 5 x 4             | 8     | 32.65 |           |     |
| 80 F 271  | 50127      | 12       | 110  | 75                   | 100  | 6 x 5 x 4             | 8     | 32.65 |           |     |
| 81 F 043  | 50167      | 12       | 110  | 42                   | 52   | 3 1/2 x 3 1/2 x 3 1/2 | 3 1/4 | 17.62 |           |     |
| 81 F 044  | 50175      | 12       | 110  | 150                  | 175  | 10 1/2 x 6 x 6        | 21    | 65.04 |           |     |
| 81 F 045  | 50179*     | 12       | 110  | 42                   | 52   | 5 1/2 x 3 1/2 x 3 1/2 | 4     | 20.88 |           |     |
| 80 F 276  | 50137*     | 6        | 110  | 75                   | 100  | 6 x 5 x 4             | 9     | 45.73 |           |     |
| 80 F 277  | 50138*     | 12       | 110  | 100                  | 125  | 6 x 5 x 4             | 9     | 45.73 |           |     |
| 80 F 197  | 50134      | 6        | 110  | 55                   | 75   | 4 x 5 x 6             | 9     | 37.88 |           |     |
|           |            | 12       | 110  | 85                   | 110  | 4 x 5 x 6             | 9     | 37.88 |           |     |
| 80 F 193  | 50153*     | 12       | 110  | 175                  | 200  | 6 x 6 x 1 1/2         | 24    | 71.87 |           |     |

## CHARGERS

| Stock No. | Mfr's Type | DC Output |       | Input at 60-80 Cycle AC | Size              | Wt., Lbs. | NET   |
|-----------|------------|-----------|-------|-------------------------|-------------------|-----------|-------|
|           |            | Volts     | Amps  |                         |                   |           |       |
| 81 F 400  | 50185      | 6/12      | 1 1/2 | 110/120                 | 2 1/2 x 3 x 5 1/2 | 2         | 7.50  |
| 81 F 046  | 50180      | 12        | 1     | 110/120                 | 2 1/2 x 3 x 5 1/2 | 2         | 13.69 |
| 81 F 047  | 50181      | 6/12      | 10    | 110/120                 | 3 1/2 x 5 x 7 1/2 | 7 1/2     | 25.45 |

## CORNELL-DUBILIER CONVERTERS

The famous line of Cornell-Dubilier "Powercon" DC-to-AC converters. Efficient vibrator-type recommended for operating AC appliances from DC power sources. All units have well-regulated output of 110 volts, 60 cycle AC. Feature improved RF filtering. Now have a higher rating for intermittent overloads. Wattage figures for intermittent use are rated for power factors from 70-100%. Superior filtering assures output free of "hash". Model 125S14 comes in case of size indicated providing room for 12 v. battery (supplied less battery). Frequency stability regardless of load. Instant starting under load—no warm-up period needed. Output has RF filtering for clear, interference-free TV, shortwave, AM and FM broadcast reception. Available in a wide variety of wattages for almost any application. \*For small portable types. Converters are listed according to inputs: 6/12 volt battery, 120 volt battery. Model 125P2 is designed especially for use with electric shavers. Its small size permits it to be stored in the glove compartment when not in use. Model 110H25 is specifically designed for use with TV receivers.



| Stock No. | Mfr's Type | Typical Applications   | Input V. DC | Watts Cont. Inter. |     | Size                  | Wt. Lbs. | List    | NET   |
|-----------|------------|------------------------|-------------|--------------------|-----|-----------------------|----------|---------|-------|
| 80 F 263  | 6/12D6     | Dictating Machines*    | 6/12        | 60                 | 75  | 5 1/2 x 7 1/2 x 6 1/4 | 11 1/2   | \$43.90 | 28.66 |
| 80 F 305  | 12S1P2     | Electric shaver        | 12          | 20                 | 20  | 2 1/2 x 2 x 3 1/2     | 2        | 13.40   | 8.79  |
| 80 F 307  | 12L8       | Radio, phone, recorder | 12          | 80                 | 100 | 5 1/2 x 6 1/2 x 8     | 12       | 39.50   | 25.82 |
| 80 F 308  | 12S10      | Radio, recorder, PA    | 12          | 100                | 125 | 5 1/2 x 6 1/2 x 9     | 14       | 63.60   | 41.55 |
| 80 F 219  | 12S14      | TV, recorder, PA       | 12          | 140                | 175 | 9 1/2 x 9 1/2 x 14    | 60       | 63.70   |       |
| 80 F 309  | 12H15      | Radio, recorder, PA    | 12          | 150                | 175 | 6 1/2 x 7 1/2 x 11    | 20       | 87.30   | 57.04 |
| 80 F 312  | 110H25     | TV, recorder, PA       | 110         | 250                | 325 | 6 1/2 x 7 1/2 x 11    | 20       | 78.00   | 51.35 |

## SCHAUER QUALITY BATTERY CHARGERS



B3612  
C3612

B312  
C312

## 4-AMPERE CHARGERS

**Model A4612.** Compact, 4-ampere, 6-volt and 12-volt battery charger. Recharges the average battery overnight. Has a selector switch for changing from 6-volt to 12-volt operation. Has automatic safeguard provision against short circuits and overloads. 4-ampere charging rate tapers to 2 amperes as battery charges. Ammeter shows charging rate. Has clip terminals. No need to disconnect or remove battery. Size, 6 1/2 x 4 1/2 x 4 1/2". For 110-120 v., 60 cycle AC. Shpg. wt., 4 1/2 lbs.

75 F 283, List, \$19.95, NET.....13.20

## 6-AMPERE CHARGERS

**Model B3612.** 6-ampere, 6-volt and 12-volt battery charger. Recharges the average battery in from 7 to 9 hours. Has a selector switch for changing from 6-volt to 12-volt operation. Accurate, numerical dial ammeter shows the exact rate of charging at every interval. This unit is ideal for restoring battery to full-charge overnight. Has fully automatic safeguard protection against short circuits and overloads. 7 1/2 x 6 1/2 x 6 1/2". For 110-120 v., 60 cycle AC. Shpg. wt., 8 1/2 lbs.

80 F 285, List, \$28.95, NET.....19.15

**Model B312.** 12-volt, 6-ampere battery charger for moderately quick charging. Fully charges the average run-down battery in from 7 to 9 hours. Car owners who use their electric accessories such as heater, radio, fan, etc., at average rate, find this model excellent for restoring their car battery to full charge overnight. Equipped with an accurate numerical dial ammeter. Size, 6 1/2 x 6 1/2 x 7 1/2". For 110-120 v., 60 cycle AC. Shpg. wt., 10 1/2 lbs.

81 F 072, List, \$24.95, NET.....16.50

## 10-AMPERE CHARGER

**Model C3612.** 10-ampere, home-type battery charger for 6 and 12 volt batteries. Will recharge the average battery in 6 hours or less. 10 ampere charging rate permits over-night charging of most batteries. Ideal for quick charging during intervals when equipment is not in use, but must be ready in a hurry. Has automatic safeguard provision for full, instantaneous protection against short circuits and overloads. Accurate numerical-dial ammeter shows exact charging rate. Size, 6 1/2 x 6 1/2 x 7 1/2". For operation from 110-120 v., 60 cycle AC. Shpg. wt., 10 1/2 lbs.

81 F 071, List, \$36.95, NET.....24.44

**Model C312.** Heavy-duty 10-amp charger for cars, tractors, trucks. For one 12-volt or two 6-volt batteries in series. Ideal for keeping batteries used in farm vehicles, trucks, etc., at full charge. With accurate numerical dial ammeter that shows exact rate of charge going into the battery. 6 1/2 x 6 1/2 x 7 1/2". For 110-120 v., 60 cycle AC. Shpg. wt., 10 lbs.

80 F 164, List, \$32.95, NET.....21.80

# Auto Antennas and Vibrators

## WARD AUTO RADIO ANTENNAS

Replace your  
worn antenna

Improve car radio reception with  
a modern antenna of advanced  
design. Save at Allied's low prices.



### CUSTOM ANTENNAS

Custom "Lok-matic" auto antennas provide excellent reception even in weak signal areas. Designed especially for 1959, 1960, and 1961 Chevrolets, and 1960 and 1961 Fords, these 3-section antennas extend to 56", telescope to 19 1/2". Positive, simple installation entirely from the outside, by one man in minutes. Antenna mounts on top of any fender; chrome plating complements the up-to-date styling of your auto. Unit is safe-guarded by waterproof, polystyrene dielectric insulation, which also provides low signal loss. 54" low loss Electron lead-in with Motorola-type plug. Wt., 1 lb.

| Stock No. | Type      | Automobile           | EACH |
|-----------|-----------|----------------------|------|
| 91 CX 215 | C-1000-60 | 1959, 1960 Chevrolet | 3.61 |
| 91 CX 324 | C-10-61   | 1961 Chevrolet       |      |
| 91 CX 322 | FO-10-60  | 1960 Ford            |      |
| 91 CX 323 | FO-10-61  | 1961 Ford            |      |

### "LOK-MATIC" UNIVERSAL TYPE

Model L-1000. Exclusive mounting principle permits quick and easy one-man installation from top of fender—the interlocking parts drop into place automatically. Provides tighter installation, built-in waterseal. Fits any lead 7/8 to 1 1/4". Its 3 sections extend to 56". Has 54" cable. Adjusts up to 43° angle. Comes pre-assembled. Shpg. wt., 1 lb.

92 CX 579. List, \$4.65. NET.....2.71

### GC-TELCO AUTO ANTENNAS

#### SPRING-MAGIC CONSTRUCTION

Model A515-1. Modern, high-quality auto radio antenna. Features a rugged universal mounting, adjustable to 30° angle. 2 1/4" chrome-plated spring bends up to 90° to prevent broken or bent antennas. 3-section unit extends to 58", telescopes to 25 1/2". Easy to install—mounts in minutes. With 54" lead-in cable and easy-to-follow instructions. Made of high-quality brass tubing, chrome plated. 1 1/2 lbs.

91 CX 398. NET.....4.41

#### SPRING-MAGIC BALL-TENNA

Model A517-1. Universal ball-swivel antenna adjusts to any angle. Spring helps prevent broken or bent whip. 3 sections extend to 58", close to 2 1/4". Chrome-plated brass tubing with 54" lead. Wt., 1 1/2 lbs.

91 CX 399. NET EACH.....5.26

### CORNELL-DUBILIER INVERTER VIBRATORS



Heavy-duty vibrators for Cornell-Dubilier "Powercon" inverters. Also replace vibrators in many mobile amplifiers. Vibrator with VB in Type No. is mounted in a solid steel box

| Stock No. | Mfr's Type | Volts | Used In "Powercon" Models             | NET EACH |
|-----------|------------|-------|---------------------------------------|----------|
| 82P 753   | 6VB6H      | 6     | 6DC6, 6/110DH6, 6R5, 6S8, 6SW8        | 8.35     |
| 82P 757   | 2563       | 6     | 6/1205, 6L6, 12L8                     | 6.41     |
| 82P 763   | *12V06H    | 12    | 12DC12, 12N15, 12RU15, 12SH20, 12SW15 | 14.52    |

Dress up your car with a smart-looking, chrome-bright Ward antenna.

### SIDE-COWL TYPE

Model SC-6. Chrome-plated brass, side-cowl antenna. 3 sections—extends to 56". Low-loss 2-stanchion mount with bakelite and chrome insulators. Positive shielding eliminates use of shield can. Detachable 36" polyethylene insulated vinylite covered, high "Q" lead-in. Simple to install. Shpg. wt., 1 lb.

97 CX 215. List, \$5.45. NET.....3.20

Model SC-8. Popular side-cowl antenna. 4 sections—extends to 100". 2-stanchion mount 36" vinylite covered high "Q" lead-in. Fits irregular car bodies. Shpg. wt., 1 1/2 lbs.

97 CX 216. List, \$7.70. NET.....4.52

### DISAPPEARING TYPE

Model D-2000. Easily-installed "Lok-matic" type that virtually disappears when collapsed to minimum of 6 1/2". 3 sections extend to 52". Installed from outside the car on cowl or fender. Completely waterproof, polystyrene insulation. With 54" lead. Shpg. wt., 1 lb.

92 CX 580. List, \$6.15. NET.....3.61

### REPLACEMENT ANTENNA MAST

Model TCFR-1. 3-section replacement mast for weather-worn or broken antennas. Easily fits over stub of old antenna. Set screws provide secure mounting. Extends to 57". Shpg. wt., 1/2 lb.

92 CX 595. List, \$2.43. NET.....1.32

### TOP-COWL AND FENDER TYPES

Model TCF-3C. A top-notch, rattleproof auto antenna that combines smart appearance and deluxe performance. Popular "Eight Ball" mount for simplified installation on top cowl. Will fit any auto. Adjustable to any desired angle. Has 3 sections. Extends to 56", telescopes to 22". Ruggedly constructed of triple chrome-plated brass tubing. Complete with 54" low-loss Electron lead-in cable with Motorola-type plug. Comes preassembled; with complete instructions. Shpg. wt., 1 lb.

97 CX 213. List, \$4.40. NET.....1.98

Model TCF-4. High-quality smartly styled antenna for either top-cowl or fender mounting. Ball mounting permitting adjusting up to 35°. The four telescoping sections extend to 57" from 18". Attractive chrome finish for lasting beauty. Sleek and modern—easy to install, locks into place. With 54" low-loss lead cable. Shpg. wt., 1 1/4 lbs.

92 CX 576. List, \$5.95. NET.....3.49

### ANTENNA LEAD EXTENSIONS

Additional lead cable lengths for fender and rear mount installations.

| Stock No. | Mfr's Type | Length | Shpg. Wt. | NET EA. |
|-----------|------------|--------|-----------|---------|
| 49 CX 557 | C-9        | 18"    | 6 oz.     | .53     |
| 49 CX 558 | C-12       | 24"    | 7 oz.     | .71     |
| 49 CX 556 | C-42       | 15-ft  | 1/2 lb.   | 2.20    |

### KNIGHT FM AUTO ANTENNA



Attaches to Existing AM Whip Antenna in Seconds

ONLY  
\$4.85

An efficient auto FM antenna. Attaches to your present AM antenna. Improves FM reception. Increases range, decreases background noise, minimizes flutter and fading. Enhances AM reception, too! Converts existing whip into 3/4 wave antenna at FM frequencies. Losses due to cross polarization are eliminated, resulting in a gain of approximately 3 db. Attaches easily to any standard AM antenna. Anodized aluminum with chromed brass fittings. Weighs only 2 oz. Shpg. wt., 5 oz.

78 C 518. ONLY.....4.85

### MALLORY REPLACEMENT

#### VIBRATORS



Carefully designed, precision built vibrators offering long, trouble-free life. Springs are fabricated of high-grade clock-spring steel. Flexible 105-strand lead wire won't break—connections stay intact. Fully backed by years of outstanding performance. If Mallory type number is not known, write to Allied, stating

make, model, tube lineup of set, or part number of the original vibrator—we will recommend correct replacement. Av. shpg. wt., 8 oz.

| Stock No. | Mfr's Type  | V.   | Size                   | List   | NET EA. |
|-----------|-------------|------|------------------------|--------|---------|
| 56 P 000  | 4-4         | 6    | 1 1/2 x 2 1/2"         | \$2.35 | 1.32    |
| 56 P 154  | 12-3        | 12   | 1 1/2 x 2 1/2"         | 2.45   | 1.38    |
| 56 P 155  | 12-4        | 12   | 1 1/2 x 2 1/2"         | 2.45   | 1.38    |
| 56 P 054  | 294         | 6    | 1 1/2 x 2 1/2"         | 4.90   | 2.88    |
| 56 P 120  | 509         | 6    | 1 1/2 x 2 1/2"         | 4.15   | 2.44    |
| 56 P 077  | 716         | 6    | 1 1/2 x 3 1/2"         | 7.70   | 4.53    |
| 56 P 094  | 870         | 6    | 1 1/2 x 2 1/2"         | 4.90   | 2.88    |
| 56 P 121  | 903M        | 6    | 1 1/2 x 2 1/2"         | 3.60   | 2.12    |
| 56 P 135  | 1501        | 6    | 1 1/2 x 2 1/2"         | 6.95   | 3.73    |
| 56 P 113  | 1601        | 6    | 1 1/2 x 2 1/2"         | 4.70   | 2.76    |
| 56 P 132  | G1601       | 12   | 1 1/2 x 2 1/2"         | 4.70   | 2.76    |
| 56 P 118  | W1601       | 4    | 1 1/2 x 2 1/2"         | 4.90   | 2.88    |
| 56 P 133  | G1602       | 12   | 1 1/2 x 2 1/2"         | 4.70   | 2.76    |
| 56 P 111  | 1603S       | 12   | 1 1/2 x 3 1/2"         | 7.70   | 4.53    |
| 56 P 159  | 1701        | 6/12 | 1 1/2 x 3 1/2"         | 9.60   | 5.64    |
| 56 P 160  | 1751        | 6    | 1 1/2 x 3"             | 9.80   | 5.76    |
| 56 P 156  | G1803S      | 12   | 1 1/2 x 3"             | 9.95   | 5.85    |
| 56 P 079  | 1801S/725S  | 6    | 1 1/2 x 2 1/2"         | 9.95   | 5.03    |
| 56 P 080  | G1801S      | 12   | 1 1/2 x 2 1/2"         | 9.95   | 5.03    |
| 56 P 145  | G1801/G4549 | 12   | 1 1/2 x 3 1/2"         | 8.55   | 5.03    |
| 56 P 131  | G1501       | 12   | 1 1/2 x 2 1/2"         | 6.90   | 4.06    |
| 56 P 138  | 1807        | 6    | 1 1/2 x 2 1/2"         | 7.70   | 4.53    |
| 56 P 166  | 1813        | 6    | 1 1/2 x 2 1/2"         | 7.70   | 4.53    |
| 56 P 127  | 14002       | 2    | 1 1/2 x 1 1/2 x 2 1/2" | 10.70  | 6.29    |



## PORTABLE, TRANSISTOR & INDUSTRIAL BATTERIES

This extensive listing covers types for hundreds of industrial applications and virtually all portable radios in use today. If you cannot determine which batteries you require, give us the make and type number of the original batteries, plus the make and model number of your set. \*Mercury batteries. †Other voltage taps: 1½, 3, 4½, 6. ‡ Other voltage taps: 3, 4½, 6, 9, 10½, 16½.



### PORTABLE "A" BATTERIES

| Stock No. | Mfr's Type | Std. Pkg. | List Price | NET PER BATTERY |      |           | Volts | Size     | Wt. Per Batt., Lbs. | Replaces |          |        |        |         |
|-----------|------------|-----------|------------|-----------------|------|-----------|-------|----------|---------------------|----------|----------|--------|--------|---------|
|           |            |           |            | Single          | Lots | Std. Pkg. |       |          |                     | Burgess  | Eveready | Philco | Zenith | Mallory |
| 0 J 901   | VS004      | 12        | \$1.65     | 1.27            | 1.16 | 1.15      | 1½    | 2½x2½x3½ | 1½                  | 4F       | 742      | P94    | Z94    | M4      |
| 0 J 902   | VS000      | 12        | 1.65       | 1.28            | 1.16 | 1.15      | 6     | 2½x2½x3½ | 1½                  | P4P1     | 744      | P4P4R  | M6     |         |
| 0 J 907   | VS010      | 6         | 3.90       | 3.00            | 2.73 | 2.73      | 1½    | 3½x2½x3½ | 1½                  | Z14      | 718      |        |        |         |
| 0 J 947   | VS034A     | 24        | 20         | .14             | .125 | .125      | 1½    | 3½x1½    | 1½                  | Z14      | 915      | P15    | Z8     | M15F    |
| 0 J 948   | VS035A     | 24        | 20         | .14             | .125 | .125      | 1½    | 1½x1½    | 1½                  | Z14      | 935      | P903   | Z7     | M14F    |
| 0 J 903   | VS036      | 24        | 20         | .14             | .125 | .125      | 1½    | 1½x2½    | 1½                  | 2R       | 950      | P912   | Z2NL   | M13F    |
| 0 J 962   | VS065      | 12        | 1.65       | 1.27            | 1.15 | 1.15      | 7½    | 2½x1½x3½ | 1½                  | CS       | 717      | P31    | Z750   | M9      |
| 0 J 963   | VS067      | 12        | 1.35       | 1.05            | .95  | .95       | 4½    | 4x1½x4½  | 1½                  | I3       | 736      | P38    | M3     |         |
| 0 J 965   | VS068      | 12        | 1.00       | .77             | .70  | .70       | 6     | 1½x1½x2½ | 1½                  | Z4       | 724      |        | M2     |         |
| 0 J 904   | VS073      | 24        | 1.25       | .09             | .08  | .08       | 1½    | 7/8x1½   | 1½                  | N        | W463     |        | N      | M910F   |
| 0 J 897   | VS074      | 12        | .15        | .10             | .095 | .095      | 1½    | 1½x1½    | 2                   | 7        | 912      | K      | Z912   | M24F    |
| 0 J 218   | VS129      | 6         | 2.25       | 1.74            | 1.58 | 1.58      | 7½    | 3½x2½x2½ | 1½                  | B5       | 713      |        | M8     |         |
| 0 J 912   | VS246      | 12        | 1.45       | 1.35            | 1.25 | 1.25      | 1½    | 1½x1½    | 1½                  | 21R      | 964      | P77    | M30    |         |
| 0 J 294   | VS315      | 6         | 1.50       | 1.16            | 1.05 | 1.05      | 7½    | 2½x2½x2½ | 1½                  | D5       | 707      | P26    | Z707   | M26     |

### PORTABLE "B" BATTERIES

| Stock No. | Mfr's Type | Std. Pkg. | List Price | NET PER BATTERY |      |           | Volts  | Size     | Wt. Per Batt., Lbs. | Replaces |          |        |        |         |
|-----------|------------|-----------|------------|-----------------|------|-----------|--------|----------|---------------------|----------|----------|--------|--------|---------|
|           |            |           |            | Single          | Lots | Std. Pkg. |        |          |                     | Burgess  | Eveready | Philco | Zenith | Mallory |
| 0 J 905   | VS012      | 6         | 4.70       | 3.62            | 3.29 | 3.29      | 45     | 3½x2½x5½ | 3                   | B30      | 484      | P305   | M207   |         |
| 0 J 906   | VS013      | 6         | 3.85       | 2.97            | 2.70 | 2.70      | 45     | 3½x1½x5½ | 2 1/2               | M30      | 482      | P45    | Z783   | M202    |
| 0 J 908   | VS016      | 6         | 3.95       | 3.04            | 2.76 | 2.76      | 22½-45 | 3½x2½x5½ | 1 1/2               | Z30      | 738      | M205   |        |         |
| 0 J 909   | VS016      | 6         | 3.50       | 2.70            | 2.45 | 2.45      | 6½     | 2½x1½x3½ | 1                   | XX45     | 467      | P67    | Z67    | M200    |
| 0 J 910   | VS055      | 12        | 2.95       | 2.29            | 2.08 | 2.08      | 45     | 2½x1½x3½ | 1 1/2               | XX30     | 455      | P105   | Z455   | M201    |
| 0 J 889   | VS082      | 6         | 3.45       | 2.70            | 2.42 | 2.42      | 6½     | 2½x1½x2½ | 1 1/2               | K45      | 457      |        | Z457   | M203    |
| 0 J 913   | VS084      | 12        | 1.50       | 1.16            | 1.05 | 1.05      | 22½    | 1½x2½x2½ | 1 1/2               | U15      | 412      | P612   | Z12M   | M215    |
| 0 J 914   | VS085      | 12        | 1.50       | 1.16            | 1.05 | 1.05      | 45     | 1½x2½x2½ | 1 1/2               | N60      | 450      | P150   | Z415   | M213    |
| 0 J 911   | VS090      | 12        | 4.50       | 3.47            | 3.15 | 3.15      | 90     | 3½x2½x2½ | 1 1/2               | NG       | 490      | P132   | Z490   | M204    |
| 0 J 968   | VS217      | 6         | 4.15       | 3.47            | 3.15 | 3.15      | 75     | 1½x1½x3½ | 1                   | XX50     | 437      | P144   | Z437   | M212    |
| 0 J 999   | VS218      | 6         | 3.25       | 2.50            | 2.27 | 2.27      | 6½     | 1½x1½x5½ | 1                   | P45      | 477      | P149   | Z477   | M211P   |
| 0 J 984   | VS219      | 6         | 3.35       | 3.05            | 2.77 | 2.77      | 90     | 1½x1½x3½ | 1                   | P60      | 479      | P176   | Z90    | M214    |
| 0 J 295   | VS316      | 6         | 4.95       | 3.82            | 3.47 | 3.47      | 90     | 1½x1½x7½ | 1                   | NGX      | 495      | P190   | Z495   | M216    |
| 0 J 296   | VS316      | 6         | 2.95       | 2.28            | 2.07 | 2.07      | 6½     | 1½x1½x3½ | 1                   | UX45     | 416      | P217   |        | M217    |

### PORTABLE "AB" BATTERIES

| Stock No. | Mfr's Type | Std. Pkg. | List Price | NET PER BATTERY |      |           | Volts   | Size      | Wt. Per Batt., Lbs. | Replaces |          |        |        |         |
|-----------|------------|-----------|------------|-----------------|------|-----------|---------|-----------|---------------------|----------|----------|--------|--------|---------|
|           |            |           |            | Single          | Lots | Std. Pkg. |         |           |                     | Burgess  | Eveready | Philco | Zenith | Mallory |
| 0 J 916   | VS019      | 6         | 7.75       | 5.98            | 5.43 | 5.43      | 1½-9-90 | 9½x2½x4½  | 6                   | F6A60    | 753      | P841A  | Z979   | M401    |
| 0 J 920   | VS047      | 6         | 8.25       | 6.36            | 5.78 | 5.78      | 9-90    | 14½x2½x4½ | 8                   | G6B60    | 752      | P60B60 | Z985   | M400    |
| 0 J 933   | VS057W     | 6         | 6.95       | 5.36            | 4.87 | 4.87      | 1½-9-90 | 9½x2½x4½  | 4                   | T6Z60    | 756      | P371   | M405   |         |
| 0 J 995   | VS327      | 12        | 7.75       | 5.8             | 5.3  | 5.3       | 9       | 3x2x2     | 1 1/2               |          | E206     |        |        |         |
| 0 J 929   | VS064      | 6         | 6.25       | 4.82            | 4.38 | 4.38      | 1½-90   | 3½x2½x2½  | 3½                  | 4T260    | 729      | P364   |        |         |

### TRANSISTOR BATTERIES

| Stock No. | Mfr's Type | Std. Pkg. | List Price | NET PER BATTERY |      |           | Volts      | Size     | Wt. Per Batt., Lbs. | Replaces |          |        |        |         |
|-----------|------------|-----------|------------|-----------------|------|-----------|------------|----------|---------------------|----------|----------|--------|--------|---------|
|           |            |           |            | Single          | Lots | Std. Pkg. |            |          |                     | Burgess  | Eveready | Philco | Zenith | Mallory |
| 0 J 219   | VS143*     | 40        | .59        | .42             | .38  | .38       | 1.35       | 3/8x2½   | 1 1/2               | HG1R     | E12      |        | RM1R   |         |
| 0 J 220   | VS144*     | 10        | 1.25       | .98             | .84  | .84       | 1.35       | 4/8x2½   | 1 1/2               | HG12R    | E400     |        | RM12R  |         |
| 0 J 221   | VS145*     | 60        | 1.25       | .92             | .78  | .78       | 1.35       | 2½x1½    | 1 1/2               | HG400R   | E132     |        | RM400R |         |
| 0 J 222   | VS148*     | 10        | 1.25       | .92             | .84  | .84       | 2.7        | 2½x3½    | 1 1/2               |          | E133     |        | TR142R |         |
| 0 J 774   | VS149*     | 2         | 1.50       | 1.10            | 1.00 | 1.00      | 4          | 2½x1½    | 1 1/2               |          |          |        | TR145  |         |
| 0 J 223   | VS150*     | 20        | .45        | .33             | .30  | .30       | 1.4        | 3/8x2½   | 1 1/2               | H133     | E640     |        | RM640  |         |
| 0 J 224   | VS163*     | 10        | 1.10       | 1.21            | 1.10 | 1.10      | 4          | 2½x1½    | 1 1/2               | H163     | E163     |        | TR163  |         |
| 0 J 225   | VS164*     | 10        | 2.00       | 1.43            | 1.35 | 1.35      | 5.6        | 2½x1½    | 1                   | H164     | E164     |        | TR164  |         |
| 0 J 226   | VS165*     | 10        | 2.43       | 1.80            | 1.64 | 1.64      | 7          | 4½x2½    | 1 1/2               | H165     | E165     |        | TR165R |         |
| 0 J 014   | VS300A     | 12        | 1.35       | 1.05            | .95  | .95       | 9          | 1x1½     | 1 1/2               | P6       | 226      |        | M1600  |         |
| 0 J 991   | VS301*     | 12        | 2.50       | 1.94            | 1.76 | 1.76      | 3.6, 9, 1½ | 1½x1½x1½ | 1 1/2               | D6P1     | 236      |        | M1900  |         |
| 0 J 837   | VS303*     | 12        | 1.50       | 1.16            | 1.05 | 1.05      | 9, 1½      | 1½x1½x2½ | 1 1/2               | XX9      | 239      |        | M1602  |         |
| 0 J 939   | VS305      | 12        | 1.85       | 1.43            | 1.30 | 1.30      | 9          | 1½x1½x2½ | 1                   | N26      | 246      | P178   | Z276   | M1603   |
| 0 J 839   | VS306      | 6         | 1.80       | 1.39            | 1.26 | 1.26      | 9          | 2½x2½x2½ | 1 1/2               | H17      | 276      |        | TR177  |         |
| 0 J 842   | VS309A*    | 12        | 1.95       | 1.51            | 1.37 | 1.37      | 9          | 3½x1½    | 1 1/2               |          |          |        |        |         |
| 0 J 845   | VS312*     | 12        | 1.95       | 1.51            | 1.37 | 1.37      | 8          | 1½x2½x2½ | 1 1/2               | H146     | E146     | P146   |        |         |
| 0 J 846   | VS313*     | 4         | 7.75       | 5.6             | 5.1  | 5.1       | 1.4        | 3/8x1½   | 1 1/2               | H69      | E146     |        | Z9     | ZM1     |
| 0 J 847   | VS314*     | 12        | 1.10       | 1.16            | 1.05 | 1.05      | 9          | 1½x1½x2½ | 1 1/2               | M6       | 266      | P1605  |        | M1605   |
| 0 J 775   | VS323      | 12        | 1.35       | 1.05            | .95  | .95       | 9          | 1½x1½x2½ | 1 1/2               | U26      | 216      | P1604  |        | TR146   |
| 0 J 227   | VS324      | 12        | 1.70       | 1.31            | 1.19 | 1.19      | 4½         | 1½x1½x2½ | 2.9                 | Z23      | 243      |        | M1610  |         |
| 0 J 228   | VS325      | 6         | 1.00       | .78             | .71  | .71       | 6          | 1½x½x4½  | 2                   |          | 283      |        |        |         |
| 0 J 053   | VS334      | 4         | 2.25       | 1.7             | 1.55 | 1.55      | 1½         | 1½x1½    | 1 1/2               | 930      | 1013     | P15R   | Z8     | M15R    |
| 0 J 953   | VS335      | 24        | 2.35       | 1.7             | 1.55 | 1.55      | 1½         | 1½x1½    | 1 1/2               | 130      | 635      | P903   | Z7     | M14R    |
| 0 J 954   | VS336      | 24        | 2.35       | 1.7             | 1.55 | 1.55      | 1½         | 1½x1½    | 1 1/2               | 230      | A-100    | P920   | Z4NL   | M14R    |
| 0 J 949   | VS400*     | 10        | 2.63       | 1.98            | 1.80 | 1.80      | 4          | 1½x1½    | 1 1/2               | H233     | E233     | P696   |        | TR233   |
| 0 J 229   | VS401*     | 24        | .50        | .37             | .34  | .34       | 1.35       | 1½x1½    | 1 1/2               | HG401    | E401     |        | RM401  |         |

### INDUSTRIAL BATTERIES

| Stock No. | Mfr's Type | Std. Pkg. | List Price | NET PER BATTERY |      |           | Volts   | Size      | Wt. Per Batt., Lbs. | Replaces |          |        |        |         |
|-----------|------------|-----------|------------|-----------------|------|-----------|---------|-----------|---------------------|----------|----------|--------|--------|---------|
|           |            |           |            | Single          | Lots | Std. Pkg. |         |           |                     | Burgess  | Eveready | Philco | Zenith | Mallory |
| 0 J 937   | VS028      | 5         | 1.25       | .97             | .88  | .88       | 4½      | 2½x2½x3½  | 1 1/2               | 5360     | 781      |        |        | TM714   |
| 0 J 938   | VS029      | 10        | 2.35       | 1.82            | 1.65 | 1.65      | 7½      | 3½x2½x3½  | 1 1/2               | 5540     | 773      |        |        | TM713   |
| 0 J 942   | VS039      | 4         | 4.98       | 3.68            | 3.34 | 3.34      | 6       | 10½x2½x7½ | 11                  | S461     | 1461     | P64    |        | TM712   |
| 0 J 992   | VS040C     | 12        | 1.10       | .87             | .79  | .79       | 6       | 2½x2½x3½  | 1 1/2               | F4H      | 509      | P4F    |        | TM711   |
| 0 J 950   | VS040S     | 12        | 1.10       | .87             | .79  | .79       | 6       | 2½x2½x3½  | 1 1/2               | F4BP     | 510S     |        |        | TM710   |
| 0 J 890   | VS083      | 12        | 1.15       | .90             | .81  | .81       | 15      | 1½x½x1½   | 1 1/2               | U10      | 411      |        | Z11M   | M208    |
| 0 J 914   | VS083      | 12        | 1.75       | 1.35            | 1.23 | 1.23      | 300     | 1½x½x2½   | 1 1/2               | U20      | 413      |        | Z13M   | M210    |
| 0 J 989   | VS093      | 3         | 11.95      | 9.21            | 8.37 | 8.37      | 1       | 2½x1½x2½  | 1 1/2               | U200     | 493      |        |        |         |
| 0 J 986   | VS101      | 5         | 1.25       | .96             | .87  | .87       | 1       | 1½x1½x2½  | 1 1/2               | 2FBP     | W354     |        |        | TM700   |
| 0 J 951   | VS102      | 5         | 2.35       | 1.77            | 1.61 | 1.61      | 22½     | 3½x2½x2½  | 3½                  | 4156     | 763      |        |        | TM710   |
| 0 J 952   | VS102      | 5         | 2.35       | 1.77            | 1.61 | 1.61      | 22½     | 3½x2½x2½  | 3½                  | 5108     | W376     |        |        | TM709   |
| 0 J 959   | VS130      | 3         | 4.45       | 3.36            | 3.13 | 3.13      | 1½-3-4½ | 4½x1½x3½  | 1                   | 2570ST   | 761T     |        |        | TM712   |
| 0 J 960   | VS131      | 3         | 4.45       | 3.43            | 3.12 | 3.12      | 1½-3-4½ | 4½x1½x3½  | 1                   | 5156SC   | 778      |        |        | TM712   |
| 0 J 987   | VS133      | 10        | 1.02       | .75             | .68  | .68       | 4½      | 2½x2½x3½  | 1 1/2               | S32      | 703      |        |        | TM706   |

# Burgess Batteries

## BATTERIES FOR ALL APPLICATIONS

- Includes Most Up-to-Date Types
- Always a Fresh Supply at Allied

Most portable batteries are listed below. We can supply additional replacements if make and models to be replaced are known.



## MERCURY BATTERIES FOR RADIOS, HEARING AIDS, INDUSTRIAL USES

| Stock No. | Mfr's Type | Std. Pkg. | List Price | NET PER BATTERY |              | Volts | Size                        | Wt. Per Batt. Lbs. | Replaces |         |        |        |        |
|-----------|------------|-----------|------------|-----------------|--------------|-------|-----------------------------|--------------------|----------|---------|--------|--------|--------|
|           |            |           |            | In Single Lots  | In Std. Pks. |       |                             |                    | Eveready | Mallory | RCA    | Philco | Zenith |
| 79 J 714  | Hg-1R      | 4         | \$0.59     | .42             | .38          | 1.35  | 2 1/2 x 5 3/8" dia.         | 1/8                | E1       | RM-1R   | VS143  |        |        |
| 79 J 715  | Hg-3R      | 4         | 1.05       | .59             | .54          | 1.35  | 2 1/2 x 1 1/2" dia.         | 1/8                | E3       | RM-3R   |        |        |        |
| 79 J 716  | Hg-4R      | 4         | 1.05       | .76             | .69          | 1.35  | 2 1/2 x 1 1/2" dia.         | 1/8                | E4       | RM-4R   |        |        |        |
| 79 J 777  | Hg-9       | 12        | .75        | .56             | .51          | 1.4   | 1 1/2 x 3 1/2" dia.         | 1/8                | E9       | ZM-9    | VS313  | P9     | Z9     |
| 79 J 717  | Hg-12R     | 2         | 1.25       | .90             | .82          | 1.35  | 2 x 5 3/8" dia.             | 1/8                | E12      | RM-12R  | VS144  |        |        |
| 79 J 718  | Hg-42R     | 1         | 3.15       |                 | 2.25         | 1.35  | 2 3/4 x 1 1/2" dia.         | 3/8                | E42      | RM-42R  |        |        |        |
| 79 J 719  | H133       | 12        | 1.50       | 1.10            | 1.00         | 4.2   | 2 x 2 1/2" dia.             | 1/8                | E133     | TR-133  | VS149  |        |        |
| 79 J 784  | H146       | 6         | 1.95       | 1.49            | 1.35         | 3.4   | 1 1/2 x 1 1/2" dia.         | 1/8                | E146     | TR-146  | VS152  | P146   | Z146   |
| 79 J 785  | H163       | 4         | 1.20       | 1.21            | 1.10         | 4.2   | 1 3/4 x 1 1/4" dia.         | 1/8                | E163     | TR-163  | VS163  |        |        |
| 79 J 786  | H164       | 12        | 2.00       | 1.49            | 1.35         | 5.6   | 1 3/4 x 1 1/2" dia.         | 1/8                | E164     | TR-164  | VS164  |        |        |
| 79 J 787  | H165       | 2         | 2.45       | 1.80            | 1.64         | 7     | 2 1/2 x 2 1/2" dia.         | 1/8                | E165     | TR-165  | VS165  |        |        |
| 79 J 788  | H177       | 12        | 1.95       | 1.51            | 1.37         | 9.8   | 1 2/3 x 3 3/8" dia.         | 1/8                | E177     | TR-177  | VS309A |        |        |
| 53 J 105  | H233       | 1         | 2.65       |                 | 1.80         | 4.2   | 1 3/4 x 1 1/4" dia.         | 1/8                | E233     | TR-233  | VS400  | P696   |        |
| 79 J 789  | Hg-312     | 6         | .33        | .25             | .23          | 1.4   | 3/4 x 5/8" dia.             | 1/8                | TR-312   | RM-312  |        |        |        |
| 79 J 790  | Hg-400R    | 6         | .36        | .28             | .25          | 1.35  | 3/4 x 5/8" dia.             | 1/8                | E400     | RM-400R | VS145  |        |        |
| 79 J 791  | Hg-401     | 3         | .50        | .37             | .34          | 1.4   | 1 1/4 x 3/4" dia.           | 1/8                | E401     | RM-401  | VS101  | P841A  | Z979   |
| 79 J 792  | Hg-450R    | 4         | .50        | .37             | .34          | 1.35  | 9/16 x 2 3/8" dia.          | 1/8                |          | RM-450R |        |        |        |
| 79 J 776  | Hg-502R    | 2         | .96        | .68             | .62          | 1.35  | 1 3/4 x 1 1/2" dia.         | 1/8                | E502     | RM-502R |        |        |        |
| 79 J 794  | Hg-520     | 6         | .25        | .18             | .16          | 1.4   | 3/8 x 1/2" dia.             | 1/8                |          | RM-520  |        |        |        |
| 79 J 795  | Hg-601R    | 2         | 1.00       | .72             | .65          | 1.35  | 1 3/8 x 3/4" dia.           | 1/8                |          | RM-601R |        |        |        |
| 79 J 796  | Hg-625R    | 4         | .45        | .33             | .30          | 1.35  | 1 1/2 x 3/4" dia.           | 1/8                | E625     | RM-625R |        |        |        |
| 79 J 797  | Hg-630     | 4         | .45        | .33             | .30          | 1.4   | 1/2 x 3/4" dia.             | 1/8                | E630     | RM-630  |        | P630   |        |
| 79 J 798  | Hg-640     | 4         | .45        | .33             | .30          | 1.4   | 7/16 x 3/4" dia.            | 1/8                | E640     | RM-640  | VS150  | P640   |        |
| 79 J 799  | Hg-675     | 6         | .38        | .29             | .26          | 1.4   | 1 1/2 x 3/4" dia.           | 1/8                | E675     | RM-675  |        |        |        |
| 79 J 793  | 303145     | 1         | 9.10       |                 | 6.33         | 8.4   | 2 1/2 x 1 1/2 x 4 1/2" dia. | 3/8                |          |         |        |        |        |

## PORTABLE BATTERIES FOR TRANSISTOR RADIOS

|          |      |    |      |      |      |           |                             |     |       |        |        |       |      |
|----------|------|----|------|------|------|-----------|-----------------------------|-----|-------|--------|--------|-------|------|
| 53 J 099 | 130  | 12 | .25  | .17  | .155 | 1 1/2     | 1 1/4 x 3/4" dia.           | 1/8 | 635   | M-14R  | VS335  | P903  | Z7   |
| 80 J 684 | 2N6  | 1  | 1.85 |      | 1.30 | 9         | 2 1/4 x 1 1/2 x 1 3/8" dia. | 1/8 | 246   | M-1602 | VS305  | P178  |      |
| 53 J 664 | 2U6  | 12 | 1.35 | 1.05 | .95  | 9         | 1 1/4 x 3/8 x 1" dia.       | 1/8 | 216   | M-1604 | VS312  |       |      |
| 53 J 696 | 2Z3  | 12 | 1.59 |      | 1.11 | 4 1/2     | 1 1/2 x 1 1/2 x 2 1/4" dia. | 1/8 | 243   | M-1610 | VS324  |       |      |
| 80 J 243 | 7    | 12 | 1.15 | .10  | .095 | 1 1/2     | 1 1/4 x 1 1/2" dia.         | 1/8 | 912   | M-24R  | VS074  | K     | Z912 |
| 53 J 090 | 230  | 24 | .25  | .17  | .155 | 1 1/2     | 2 1/4 x 1 1/2 x 1 3/8" dia. | 1/8 | A100  | M-13R  | VS336  | P920  | Z2NL |
| 53 J 091 | 030  | 12 | .25  | .17  | .155 | 1 1/2     | 2 1/4 x 1 1/2 x 1 3/8" dia. | 1/8 | 1015E | M-15R  | VS034  | P15   | Z8   |
| 80 J 690 | A4   | 1  | 1.00 |      | .69  | 6         | 2 1/2 x 1 1/2 x 1 1/2" dia. | 1/8 |       |        |        |       |      |
| 80 J 694 | C6X  | 1  | 1.60 |      | 1.10 | 9         | 2 1/2 x 1 1/2 x 1 1/2" dia. | 1/8 | 2356  |        | VS315  | P26   | Z707 |
| 53 J 087 | D5   | 1  | 1.50 |      | 1.05 | 7 1/2     | 2 1/2 x 2 x 2 1/2" dia.     | 1/8 | 707   | M-26   | VS316  | P88   | Z776 |
| 80 J 666 | D6   | 1  | 1.80 |      | 1.26 | 1         | 3/8 x 2 x 2 1/2" dia.       | 1/8 | 276   | M-1603 | VS306  | P28   | Z276 |
| 80 J 691 | D6PI | 1  | 2.50 |      | 1.70 | 3, 6, 9   | 2 1/2 x 1 1/2 x 2 1/2" dia. | 1/8 | 2506  | M-1601 | VS301  |       |      |
| 53 J 093 | D6S  | 1  | 1.50 |      | 1.05 | 9         | 2 1/2 x 1 1/2 x 2 1/2" dia. | 1/8 | 2761  | M-1608 | VS322  | P1605 |      |
| 53 J 092 | M6   | 1  | 1.50 |      | 1.05 | 9         | 1 1/2 x 1 1/2 x 2 1/2" dia. | 1/8 | 266   | M-1605 | VS322  | P1605 |      |
| 80 J 689 | NE   | 6  | 1.25 | .09  | .08  | 1 1/2     | 1 1/4 x 7/8" dia.           | 1/8 |       |        |        |       |      |
| 53 J 086 | P6   | 12 | 1.35 | 1.05 | .95  | 9         | 1 1/2 x 1" dia.             | 1/8 | 226   |        | VS300  | P91   | Z266 |
| 79 J 679 | XX9  | 1  | 1.50 |      | 1.05 | 9, 13 1/2 | 1 1/2 x 2 1/2 x 2 1/2" dia. | 1/8 | 239   | M-1900 | VS304  |       |      |
| 79 J 699 | VL6  | 12 | 1.20 | .91  | .83  | 9         | 1 1/2 x 1 1/2 x 1 1/2" dia. | 1/8 | E177  |        | VS309A |       |      |

## PORTABLE "A" BATTERIES

|          |    |    |        |      |      |       |                             |       |      |       |        |      |      |
|----------|----|----|--------|------|------|-------|-----------------------------|-------|------|-------|--------|------|------|
| 53 J 029 | 1  | 24 | \$0.20 | .14  | .13  | 1 1/2 | 1 1/4 x 3/4" dia.           | 1/8   | 935  | M-14R | VS035A | P903 | Z7   |
| 53 J 069 | 2D | 1  | 1.20   |      | .84  | 1 1/2 | 2 1/4 x 1 1/2 x 2 1/2" dia. | 1/8   | 720  | M-18  | VS069  |      |      |
| 53 J 063 | 2R | 48 | .20    | .15  | .13  | 1 1/2 | 2 1/4 x 1 1/2 x 2 1/2" dia. | 1/8   | 950  | M-13R | VS036  | P920 | Z2NL |
| 53 J 042 | 2R | 12 | 1.45   | .35  | .33  | 1 1/2 | 2 1/4 x 1 1/2 x 2 1/2" dia. | 1/8   | 964  | M-20  | VS236  | P77  | Z5   |
| 53 J 042 | B5 | 1  | 2.25   |      | 1.58 | 7 1/2 | 2 1/2 x 2 1/2 x 2 1/2" dia. | 1/8   | 713  | M-3   | VS129  |      |      |
| 53 J 043 | C5 | 6  | 1.50   | 1.15 | 1.05 | 7 1/2 | 2 1/4 x 1 1/2 x 3 1/2" dia. | 1/8   | 717  | M-9   | VS065  | P31  | Z750 |
| 53 J 070 | D3 | 6  | 1.35   | 1.05 | .95  | 4 1/2 | 3 1/4 x 1 1/2 x 2 1/2" dia. | 1/8   | 726  | M-19  | VS072  | P450 | Z450 |
| 53 J 624 | F3 | 6  | 1.35   | 1.05 | .95  | 4 1/2 | 4 x 1 1/2 x 4 1/4" dia.     | 1/8   | 736  | M-3   | VS067  | P38  | Z736 |
| 53 J 071 | T5 | 3  | 1.90   | 1.45 | 1.32 | 1 1/2 | 2 1/2 x 2 1/2 x 3 3/4" dia. | 1 1/2 | W360 |       |        |      |      |
| 80 J 625 | Z4 | 1  | 1.00   |      | .70  | 6     | 1 1/2 x 1 1/2 x 2 1/2" dia. | 1/8   | 724  | M-2   | VS068  |      |      |

## PORTABLE "B" BATTERIES

|          |       |   |      |      |      |         |                              |       |      |        |       |      |      |
|----------|-------|---|------|------|------|---------|------------------------------|-------|------|--------|-------|------|------|
| 80 J 535 | A30   | 2 | 3.55 | 2.74 | 2.49 | 45      | 3 3/4 x 2 1/4 x 4 3/4" dia.  | 1 3/4 | W359 | M-206  | VS014 | P210 | Z530 |
| 80 J 536 | B30   | 2 | 4.70 | 3.62 | 3.29 | 45      | 4 1/4 x 2 1/2 x 5 3/8" dia.  | 2 1/4 | 484  | M-207  | VS012 | P305 |      |
| 80 J 631 | K45   | 6 | 3.45 | 2.66 | 2.42 | 67 1/2  | 2 1/2 x 1 1/2 x 2 1/2" dia.  | 1/8   | 457  | M-203  | VS082 |      | Z457 |
| 80 J 246 | N30   | 1 | 3.85 |      | 2.70 | 45      | 5 1/2 x 1 1/2 x 3 3/4" dia.  | 2     | 482  | M-202  | VS013 | P45  | Z783 |
| 80 J 632 | N60   | 6 | 4.50 | 3.47 | 3.15 | 90      | 1 1/2 x 1 1/2 x 2 1/2" dia.  | 1 1/2 | 482  | M-203  | VS090 | P132 | Z490 |
| 80 J 693 | N60X  | 1 | 4.95 |      | 3.47 | 90      | 1 1/2 x 1 1/2 x 7 1/4" dia.  | 1 1/2 | 495  | M-215  | VS116 | P190 | Z495 |
| 80 J 642 | P45   | 6 | 3.10 | 2.39 | 2.17 | 67 1/2  | 1 2/3 x 1 1/2 x 5 3/8" dia.  | 1 1/8 | 477  | M-211P | VS218 | P149 | Z477 |
| 80 J 645 | P45M  | 6 | 4.00 | 3.03 | 2.75 | 67 1/2  | 1 2/3 x 1 1/2 x 5 3/8" dia.  | 1 1/8 |      |        | VS215 | P175 |      |
| 80 J 665 | P60   | 6 | 3.95 | 3.05 | 2.77 | 90      | 1 2/3 x 1 1/2 x 7 1/4" dia.  | 1 1/8 | 479  | M-214  | VS219 | P176 | Z90  |
| 80 J 666 | U30   | 1 | 2.50 |      | 1.75 | 45      | 1 3/4 x 1 1/2 x 3 3/4" dia.  | 1     | 415  | M-213  | VS086 | P150 | Z415 |
| 79 J 698 | UB45  | 1 | 2.75 |      | 1.90 | 67 1/2  | 1 1/2 x 1 1/2 x 4 1/4" dia.  | 1/8   |      |        |       |      |      |
| 80 J 692 | UX45  | 1 | 2.95 |      | 2.07 | 67 1/2  | 1 1/2 x 1 1/2 x 4 1/4" dia.  | 1/8   | 416  | M-217  | VS318 | P217 |      |
| 80 J 539 | W30PI | 1 | 3.33 |      | 2.33 | 45      | 2 1/2 x 1 1/2 x 3 3/4" dia.  | 1/8   | 733  | M-201  |       |      |      |
| 80 J 545 | XX30  | 6 | 2.75 | 2.11 | 1.92 | 45      | 2 1/2 x 1 1/2 x 3 3/4" dia.  | 1/8   | 455  |        | VS055 | P105 | Z455 |
| 80 J 544 | XX45  | 6 | 3.50 | 2.70 | 2.45 | 67 1/2  | 2 3/4 x 1 1/2 x 3 3/4" dia.  | 3/8   | 467  | M-200  | VS016 | P67  | Z67  |
| 80 J 613 | XX50  | 6 | 4.50 | 3.47 | 3.15 | 75      | 1 1/2 x 1 1/2 x 6 3/8" dia.  | 1 1/4 | 437  | M-212  | VS217 | P144 | Z437 |
| 80 J 586 | XX69  | 1 | 6.57 | 4.60 | 4.60 | 103 1/2 | 1 1/2 x 1 1/2 x 11 3/4" dia. | 1 1/2 | W361 |        |       |      |      |
| 80 J 537 | Z30   | 2 | 3.95 | 3.04 | 2.76 | 45      | 3 x 2 1/2 x 4 1/4" dia.      | 1 1/2 | 738  | M-205  | VS015 | P104 |      |





## BATTERIES FOR ALL PURPOSES

If you do not find the battery you need in this listing, write us. Give the make and type of both battery and set. We'll supply an equivalent battery.

### "FEATHERWEIGHT" "B" BATTERIES—INCLUDING HEARING AID TYPES

| Stock No. | Mfr's Type | Std. Pkg. | List Price | NET EA. | Volts | Size                     | Shpg. Wt., Oz. | Replaces | Eveready | Acous-tion |
|-----------|------------|-----------|------------|---------|-------|--------------------------|----------------|----------|----------|------------|
| 53 J 072  | XX15       | 1         | \$1.95     | .37     | 22½   | 1 1/8" x 1 1/8" x 3 1/2" | 2              |          | 425P     | 22EW       |
| 53 J 073  | XX22       | 1         | 2.45       | .72     | 33    | 1 1/8" x 1 1/8" x 4 1/2" | 2              |          | 433P     | 33EW       |
| 53 J 074  | XX30PI     | 1         | 3.00       | 2.10    | 45    | 1 1/8" x 1 1/8" x 5 1/2" | 12             | Z30      | 455P     | 45EW       |
| 53 J 094  | K-10       | 1         | 1.65       | .16     | 15    | 1 1/8" x 1 1/8" x 1 1/2" | 2              |          | 417      |            |
| 53 J 095  | K-15       | 1         | 1.75       | .23     | 22½   | 1 1/8" x 1 1/8" x 2 1/2" | 2              |          | 420      |            |
| 53 J 075  | K20        | 1         | 2.15       | .81     | 30    | 2 1/8" x 1 1/8" x 1 1/2" | 2              | Z11M     | 430      | 711G       |
| 53 J 076  | U10        | 1         | 1.15       | .15     | 15    | 1 1/8" x 1 1/8" x 1 1/2" | 2              | Z12M     | 212      | 712H       |
| 53 J 077  | U15        | 1         | 1.30       | .25     | 22½   | 1 1/8" x 1 1/8" x 2 1/2" | 2              | Z13M     | 213      | 713G       |
| 53 J 078  | U20        | 1         | 1.75       | .81     | 30    | 2 1/8" x 1 1/8" x 1 1/2" | 2              |          | 417      |            |
| 53 J 080  | Y10        | 1         | 1.15       | .81     | 15    | 1 1/8" x 1 1/8" x 1 1/2" | 3              | Z5M      | Z5       | 504        |
| 53 J 081  | Y15        | 1         | 1.50       | 1.05    | 22½   | 1 1/8" x 1 1/8" x 2 1/2" | 3              | Z6M      | Z6       | 505        |
| 53 J 079  | Y20        | 1         | 1.85       | .30     | 30    | 1 1/8" x 1 1/8" x 2 1/2" | 3              |          | Z7       | 506        |
| 53 J 084  | Y20S       | 1         | 1.85       | 1.30    | 30    | 1 1/8" x 1 1/8" x 2 1/2" | 3              |          |          | 507        |

### TYPE 2U6—FOR TRANSISTOR PORTABLE RADIOS

Fits Most Japanese-Import Models

Nine-volt transistor portable battery that is physically and electrically equivalent to the following American-made batteries: Eveready 216; RCA V5-323; NEDA 1604; Ray-O-Vac 1604; Mallory M1604; General 179; Western Auto 386469; Marathon 1604; Montgomery Ward 123; Sears 6417; Zetrol 216. Also fits 80 J 664, List, \$1.35. NET



In Standard Pkg. of 12, EACH. .95c

### FLASHLIGHT BATTERIES

Chrome protected. Types 2 and 210 cells sealed in steel—all others sealed in plastic and steel. Type 1—for baby tubular flashlights; Types 2 and 210—for standard flashlights; Type 2—for standard penlights; Type 7—for slim penlights; Type N—for miniature and novelty lights. \*Heavy-duty type—last up to 2½ times longer than No. 2 cells. Av. wt., 5 oz.



1 2 210

### STANDARD DRY BATTERIES

Suitable for all radio, laboratory and hobby requirements. Ideal for running model boats, planes, cars, transmitters, etc. Burgess quality construction and insulators allow use of very active ingredients providing maximum useful life. All have exceptionally large power reserves and highly active depolarizing agents which quickly regenerate power producing capacity when batteries are not being used. Letters following battery type numbers denote terminals: P1—plug-in terminals; R—minials. All others have screw terminals.



SC—spring clip

### "A" BATTERIES

| Stock No. | Mfr's Type | Volts | Size                     | Shpg. Wt., Lbs. | Std. Pkg. | NET EACH  |
|-----------|------------|-------|--------------------------|-----------------|-----------|-----------|
| 53 J 021  | 2BBP       | 1½    | 1 1/8" x 1 1/8" x 2 1/4" | 3/4             | 6         | 1.28 1.16 |
| 53 J 600  | 2BBP       | 1½    | 2 1/8" x 1 1/8" x 2 1/4" | 3/4             | 1         | .77       |
| 53 J 017  | 2F2H       | 3     | 2 1/8" x 2 1/8" x 4 1/2" | 1½              | 5         | 1.19 1.08 |
| 53 J 037  | 2F2BP      | 3     | 5 1/8" x 1 1/8" x 4 1/2" | 1½              | 1         | 2.23      |
| 53 J 001  | 2F4        | 6     | 4 x 2 1/8" x 5 1/2"      | 2½              | 1         | 2.73      |
| 53 J 036  | 2FBP       | 1½    | 2 1/8" x 1 1/8" x 4 1/2" | 1               | 5         | .87 .79   |
| 53 J 604  | 222PI      | 1½    | 1 1/8" x 1 1/8" x 2 1/4" | 3/4             | 12        | .75 .68   |
| 53 J 049  | 2F4        | 6     | 4 x 2 1/8" x 5 1/2"      | 2½              | 1         | .65       |
| 53 J 003  | 4F         | 1½    | 2 1/8" x 2 1/8" x 4 1/2" | 1½              | 6         | 1.27 1.15 |
| 53 J 038  | 422        | 3     | 2 1/8" x 2 1/8" x 4 1/2" | 1½              | 10        | .63 .57   |
| 53 J 035  | 432        | 4½    | 2 1/8" x 1 1/8" x 4 1/2" | 1½              | 10        | .73 .68   |
| 53 J 023  | 44         | 1½    | 4 1/8" x 1 1/8" x 2 1/4" | 3/4             | 12        | .14 .13   |
| 53 J 045  | 5R         | 4½    | 2 1/8" x 1 1/8" x 4 1/2" | 1½              | 1         | .68       |
| 53 J 085  | 532        | 4½    | 2 1/8" x 1 1/8" x 2 1/4" | 2½              | 1         | 1.93      |
| 53 J 029  | 6F         | 1½    | 4 1/8" x 2 1/8" x 4 1/2" | 3               | 1         | 2.42      |
| 53 J 006  | 8F         | 1½    | 3 1/8" x 2 1/8" x 5 1/2" | 3               | 1         | .60       |
| 53 J 046  | 9R         | 1½    | 3 1/8" x 1 1/8" x 4 1/2" | 3/4             | 12        | .13 .12   |
| 53 J 047  | 9R         | 3     | 1 1/8" x 1 1/8" x 2 1/4" | 3/4             | 6         | 1.03 .94  |
| 53 J 591  | B2BP       | 3     | 2 1/8" x 1 1/8" x 2 1/4" | 1               | 5         | .87 .79   |
| 53 J 018  | F2BP       | 3     | 2 1/8" x 1 1/8" x 2 1/4" | 1½              | 1         | .79       |
| 53 J 016  | F4BP       | 6     | 2 1/8" x 2 1/8" x 4 1/2" | 1½              | 1         | 1.28      |
| 53 J 011  | F4PI       | 6     | 2 1/8" x 2 1/8" x 4 1/2" | 1½              | 6         | 1.16 1.05 |
| 53 J 013  | G3         | 4½    | 4 1/8" x 1 1/8" x 4 1/2" | 1½              | 6         |           |

### "B" BATTERIES

|          |         |     |                          |       |   |      |
|----------|---------|-----|--------------------------|-------|---|------|
| 53 J 504 | 10308PI | 45  | 8 1/8" x 4 1/8" x 7 1/8" | 1 1/2 | 1 | 4.84 |
| 53 J 505 | 10308SC | 45  | 8 1/8" x 4 1/8" x 7 1/8" | 1 1/4 | 1 | 4.84 |
| 53 J 501 | 10308SC | 45  | 8 1/8" x 4 1/8" x 7 1/8" | 1 1/4 | 1 | 5.36 |
| 53 J 502 | 10308SC | 45  | 8 1/8" x 4 1/8" x 7 1/8" | 1 1/4 | 1 | 3.84 |
| 53 J 510 | 4156    | 22½ | 3 1/8" x 2 1/8" x 2 1/4" | 1     | 1 | 1.61 |
| 53 J 511 | 5156PI  | 22½ | 4 1/8" x 2 1/8" x 2 1/4" | 1 1/4 | 1 | 3.12 |
| 53 J 512 | 5156SC  | 22½ | 4 1/8" x 2 1/8" x 2 1/4" | 3/4   | 1 | 3.43 |
| 53 J 508 | 5308    | 45  | 8 1/8" x 4 1/8" x 7 1/8" | 1 1/4 | 1 | 3.05 |
| 53 J 509 | 5308    | 45  | 2 1/8" x 2 1/8" x 4 1/2" | 1     | 1 | 8.37 |
| 53 J 097 | 5308    | 45  | 5 1/8" x 2 1/8" x 4 1/2" | 1 1/4 | 1 | 3.47 |
| 53 J 098 | D30T    | 45  | 3 x 2 1/8" x 4 1/2"      | 1½    | 1 | 2.62 |
| 53 J 519 | W30BPX  | 45  | 3 x 1 1/8" x 3 1/8"      | 1½    | 5 | 2.96 |
| 53 J 524 | Z40NXC  | 45  | 1 1/8" x 3 1/8" x 5 1/8" | 1½    | 1 | 2.69 |
| 53 J 634 | Z60BP   | 90  | 3 1/8" x 2 1/8" x 5 1/8" | 2½    | 1 | 8.90 |

### "C" BATTERIES

|          |        |     |                          |    |    |           |
|----------|--------|-----|--------------------------|----|----|-----------|
| 53 J 593 | 2370   | 4½  | 3 1/8" x 1 1/8" x 2 1/4" | 1  | 5  | 1.46 1.33 |
| 53 J 513 | 2370PI | 4½  | 4 1/8" x 1 1/8" x 2 1/4" | 1½ | 5  | 1.74 1.58 |
| 53 J 514 | 5360   | 4½  | 4 1/8" x 1 1/8" x 2 1/4" | 1½ | 10 | .97 .88   |
| 53 J 514 | 5340   | 7½  | 4 1/8" x 2 1/8" x 2 1/4" | 1½ | 5  | 1.82 1.65 |
| 53 J 516 | 5340   | 13½ | 2 1/8" x 2 1/8" x 2 1/4" | 1½ | 1  | 2.64      |
| 53 J 523 | 49BP   | 7½  | 4 1/8" x 2 1/8" x 2 1/4" | 1½ | 1  | 2.63      |
| 53 J 516 | B5P    | 7½  | 4 1/8" x 2 1/8" x 2 1/4" | 1½ | 6  | 1.62 1.47 |
| 53 J 521 | W5BP   | 7½  | 2 1/8" x 2 1/8" x 1 1/4" | 1½ | 1  |           |

### PORTABLE "AB" PACKS

| Stock No. | Mfr's Type | Volts             | Size                      | Shpg. Wt., Lbs. | Std. Pkg. | NET EACH Single Std. Lots Pkg. |
|-----------|------------|-------------------|---------------------------|-----------------|-----------|--------------------------------|
| 80 J 551  | 4GA42      | 1 1/2, .63        | 9 1/4" x 2 1/4" x 4 1/2"  | 4               | 1         | 6.16                           |
| 80 J 676  | 4TZ60      | 1 1/2, .90        | 7 5/8" x 2 1/4" x 4 1/2"  | 4               | 1         | 4.38                           |
| 80 J 555  | 4TG60      | 1 1/2, .90        | 9 1/4" x 2 1/4" x 4 1/2"  | 4 1/2           | 1         | 5.48                           |
| 80 J 584  | 4FG60      | 1 1/2, .90        | 9 1/4" x 2 1/4" x 4 1/2"  | 4               | 1         | 5.48                           |
| 80 J 616  | 6RGA60P    | 9, 90             | 9 1/4" x 2 1/4" x 4 1/2"  | 6 1/2           | 1         | 5.57                           |
| 80 J 570  | GGB60      | 9, 90             | 1 3/8" x 2 1/4" x 4 1/2"  | 7               | 1         | 5.71                           |
| 80 J 585  | GGM60      | 7 1/2, 9, 90, 100 | 10 1/4" x 3 1/4" x 4 1/2" | 6               | 1         | 5.62                           |
| 80 J 615  | TSZ50      | 0, 7 1/2, 7.5     | 8 1/2" x 3 1/2" x 2 3/8"  | 4               | 1         | 6.86                           |
| 80 J 675  | TSZ50P     | 7 1/2, 7.5        | 8 1/2" x 3 1/2" x 2 3/8"  | 3 1/2           | 1         | 4.82                           |
| 80 J 676  | TSZ60      | 9, 90             | 2 1/8" x 3 1/2" x 4 1/2"  | 3 1/2           | 1         | 4.82                           |
| 80 J 643  | TOZ60P     | 9, 90             | 2 1/8" x 3 1/2" x 3 1/8"  | 4 1/2           | 1         | 5.87                           |

### IGNITION, TELEPHONE AND ALARM BATTERIES

Designed for emergency illumination, portable lighting, alarm systems. Used by railroads, police, fire departments and emergency crews. Dependable, leakproof metal container. Types 4F2H and 4FH recommended for general ignition, telephone and lantern service, etc.

| Stock No. | Mfr's Type | Volts | Size                      | Shpg. Wt., Lbs. | Std. Pkg. | NET EACH  |
|-----------|------------|-------|---------------------------|-----------------|-----------|-----------|
| 53 J 024  | 4FH        | 1½    | 2 1/8" x 2 1/8" x 4 1/2"  | 1½              | 12        | .92 .84   |
| 53 J 027  | 4F2H       | 3     | 8 1/8" x 2 1/8" x 5 1/8"  | 2½              | 1         | .84       |
| 53 J 025  | 4F4H       | 6     | 8 1/8" x 2 1/8" x 5 1/8"  | 6½              | 1         | 3.34      |
| 53 J 001  | 4F5H       | 7½    | 7 1/8" x 3 1/8" x 5 1/8"  | 9               | 1         | 4.86      |
| 53 J 033  | 4F6H       | 9     | 8 1/8" x 3 1/8" x 5 1/8"  | 9               | 1         | 5.53      |
| 53 J 638  | 1          | 1½    | 6 1/8" x 2 1/8" x 4 1/2"  | 2               | 12        | .92 .84   |
| 53 J 639  | 6-Tel.     | 1½    | 6 1/8" x 2 1/8" x 4 1/2"  | 2               | 12        | .92 .84   |
| 53 J 640  | 6-Tel.     | 6     | 10 1/8" x 2 1/8" x 7 1/8" | 2               | 12        | 3.99      |
| 53 J 640  | S461       | 6     | 10 1/8" x 2 1/8" x 7 1/8" | 8½              | 6         | 36.7 3.34 |

### LANTERN BATTERIES

For use with railroad-type lanterns. Type F4H has positive coilspring contacts—a favorite of railroadmen. Type TW1S for underwater use.

| Stock No. | Mfr's Type | Volts | Size                     | Wt., Lbs. | Std. Pkg. | NET EACH |
|-----------|------------|-------|--------------------------|-----------|-----------|----------|
| 53 J 027  | 4F2H       | 3     | 3 1/8" x 2 1/8" x 5 1/8" | 2½        | 1         | 1.45     |
| 53 J 028  | F4H        | 6     | 2 1/8" x 2 1/8" x 4 1/2" | 1½        | 12        | .87 .79  |
| 53 J 1016 | F4BP       | 6     | 2 1/8" x 2 1/8" x 4 1/2" | 1½        | 1         | .79      |
| 53 J 1013 | F4SC       | 6     | 2 1/8" x 2 1/8" x 4 1/2" | 1½        | 1         | .79      |
| 53 J 680  | TW1        | 6     | 5 1/8" x 2 1/8" x 4 1/2" | 3½        | 1         | 1.83     |
| 53 J 104  | TW1S       | 6     | 5 1/8" x 2 1/8" x 4 1/2" | 3½        | 1         | 2.05     |
| 79 J 753  | T2         | 12    | 5 1/8" x 2 1/8" x 4 1/2" | 3½        | 1         | 1.83     |

### SPECIAL-PURPOSE TAPE RECORDER BATTERIES

Extremely compact, highly dependable batteries. Designed specifically for use in pocket tape recorders. \*Flat contact. †Snap type.

| Stock No. | Type   | Volts | Size                     | Lbs. | NET  |
|-----------|--------|-------|--------------------------|------|------|
| 53 J 099  | 2X62N† | 1½    | 2 1/8" x 1 1/8" x 2 1/4" | 1    | 1.82 |
| 53 J 100  | 2X7†   | 10½   | 2 1/8" x 1 1/8" x 2 1/4" | 1    | 1.82 |
| 53 J 101  | 3XN†   | 10½   | 1 1/8" x 1 1/8" x 3 1/2" | ½    | 2.00 |

# Mallory and Burgess Batteries



Assure peak performance of portable radios. Feature uniform discharge voltage, exceptionally long storage life.

## MALLORY MERCURY TRANSISTOR RADIO BATTERIES

As new mercury batteries become available from the manufacturer, Allied will stock them. Av. shpg. wt., 2 oz.



| Stock No. | Mallory Type | Std. Pkg. | NET PER BATTERY |           | Volts |
|-----------|--------------|-----------|-----------------|-----------|-------|
|           |              |           | Single Lts      | Std. Pkg. |       |
| 80 J 727  | ZM-9         | 12        | .56             | .51       | 1.4   |
| 80 J 749  | DM-9N        | 2         | .56             | .51       | 1.4   |
| 79 J 761  | TR-133       | 12        | 1.10            | 1.00      | 4.2   |
| 80 J 785  | TR-146       | 6         | 1.10            | 1.00      | 4.2   |
| 79 J 758  | TR-175       | 10        | 1.49            | 1.37      | 8.4   |
| 79 J 759  | TR-177       | 12        | 1.49            | 1.37      | 8.4   |
| 79 J 760  | TR-177       | 12        | 1.49            | 1.37      | 8.4   |
| 80 J 849  | TR-233       | 10        | 1.98            | 1.80      | 4.2   |
| 79 J 755  | RM-42        | 10        | 2.04            | 1.85      | 1.4   |
| 80 J 884  | RM-401       | 3         | .33             | .30       | 1.4   |
| 79 J 756  | RM-630       | 4         | .33             | .30       | 1.4   |
| 79 J 757  | RM-640       | 4         | .33             | .30       | 1.4   |

## MALLORY MERCURY BATTERIES

Extremely long shelf life, uniform discharge voltage and extended operating life make these units ideal for applications where high reliability is required. Suffix T of RM batteries indicates  $\frac{1}{2}$  tab on negative terminal. T2 indicates two tabs. TR batteries are transistor powerpaks with self-welding construction designed to relieve excess gas which may form. Power-paks are widely used by designers and manufacturers of all types of electronic equipment. Av. shpg. wt., 3 oz.

| Stock No. | Mfr's Type | Volts | Size Body x Lgth.                             | Std. Pkg. | PER BATTERY |           |
|-----------|------------|-------|-----------------------------------------------|-----------|-------------|-----------|
|           |            |       |                                               |           | Sp. Lts.    | Std. Pkg. |
| 79 J 762  | RM1        | 1.4   | $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 4         | .42         | .38       |
| 80 J 878  | RM1R       | 1.35  | $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 4         | .42         | .38       |
| 79 J 721  | RM1RT      | 1.35  | $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 4         | .42         | .38       |
| 79 J 722  | RM1RT2     | 1.35  | $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 4         | .53         | .48       |
| 80 J 787  | RM4R       | 1.35  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 4         | .62         | .56       |
| 80 J 880  | RM4R       | 1.35  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 4         | .79         | .72       |
| 80 J 740  | RM4RT      | 1.35  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 4         | .85         | .77       |
| 79 J 723  | RM4Z       | 1.4   | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 4         | .64         | .58       |
| 79 J 763  | RM12       | 1.4   | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 4         | .90         | .82       |
| 80 J 881  | RM12R      | 1.35  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2         | .96         | .87       |
| 79 J 724  | RM12RT     | 1.35  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2         | .96         | .87       |
| 79 J 764  | RM12RT2    | 1.35  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2         | 1.01        | .92       |
| 80 J 784  | RM42R      | 1.35  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 10        | 2.48        | 2.25      |
| 80 J 742  | RM42RT     | 1.35  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 10        | 2.59        | 2.30      |
| 79 J 725  | RM42RT2    | 1.35  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 10        | 2.59        | 2.30      |
| 80 J 743  | RM400R     | 1.35  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 6         | .28         | .25       |
| 79 J 765  | RM411      | 14.0  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 1         | 2.50        | 2.50      |
| 79 J 766  | RM412      | 22.4  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 1         | 3.50        | 3.50      |
| 79 J 767  | RM413      | 28.0  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 1         | 4.50        | 4.50      |
| 79 J 768  | RM415      | 42.0  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 1         | 6.50        | 6.50      |
| 80 J 744  | RM450R     | 1.35  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 4         | .37         | .34       |
| 80 J 892  | RM602R     | 1.35  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2         | .72         | .65       |
| 80 J 745  | RM601R     | 1.35  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2         | .72         | .65       |
| 80 J 746  | RM625R     | 1.35  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2         | .72         | .65       |
| 80 J 883  | RM625RT    | 1.35  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 4         | .39         | .35       |
| 79 J 726  | RM625RT2   | 1.35  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 4         | .44         | .40       |
| 79 J 769  | RM640RT2   | 1.35  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 20        | .44         | .40       |
| 80 J 747  | RM675      | 4.05  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 6         | .29         | .26       |
| 80 J 789  | TR-113R    | 4.05  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2         | 1.49        | 1.50      |
| 80 J 790  | TR-114R    | 5.4   | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2         | 1.65        | 1.60      |
| 79 J 770  | TR-114RT2  | 5.4   | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 10        | 1.76        | 1.60      |
| 80 J 728  | TR-115R    | 6.75  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2         | 1.80        | 1.64      |
| 80 J 729  | TR-132R    | 2.7   | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2         | .92         | .84       |
| 80 J 731  | TR-134R    | 3.4   | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2         | 1.68        | 1.53      |
| 80 J 732  | TR-135R    | 6.75  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2         | 2.04        | 2.30      |
| 80 J 733  | TR-136R    | 8.1   | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2         | 2.04        | 2.30      |
| 80 J 787  | TR-145     | 7     | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2         | 1.74        | 1.58      |
| 80 J 734  | TR-152R    | 2.7   | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2         | .79         | .72       |
| 80 J 791  | TR-153R    | 4.05  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2         | 1.01        | .92       |
| 80 J 792  | TR-162R    | 2.7   | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2         | .86         | .87       |
| 79 J 771  | TR-163     | 4.2   | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 10        | 1.21        | 1.10      |
| 79 J 772  | TR-165     | 7.0   | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 10        | 1.80        | 1.64      |
| 79 J 694  | TR-169     | 5.6   | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 1         | 3.20        | 3.20      |
| 79 J 695  | TR-234     | 12.6  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 1         | 2.68        | 2.44      |
| 79 J 696  | 303145     | 8.4   | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 1         | 2.68        | 2.44      |

## MALLORY GRID BIAS CELLS

For biasing first audio amplifier tubes. No by-pass capacitor to ground needed. Stock units with clips listed below. Size,  $\frac{1}{16}$  x  $\frac{3}{16}$  x  $\frac{1}{8}$ . Shpg. wt., 2 oz.

| Stock No. | Mfr's Type | Volts         | List | EACH |
|-----------|------------|---------------|------|------|
| 9 M 948   | BC-3       | $\frac{1}{2}$ | 60c  |      |
| 9 M 949   | BC-5       | $\frac{1}{2}$ | 60c  | 40c  |

## MALLORY BIAS CELL CLIPS

Clips to hold grid bias cells listed at left,  $\frac{1}{16}$  x  $\frac{1}{8}$  tinned leads. Cells easily inserted or removed. Shpg. wt., 2 oz.

| Stock No. | Mfr's Type | Capacity | List | EACH |
|-----------|------------|----------|------|------|
| 9 M 952   | GB-15      | 2-cell   | 40c  |      |
| 9 M 953   | GB-16      | 4-cell   | 40c  |      |
| 9 M 954   | GB-17      | 1-cell   | 40c  | 26c  |

## BURGESS WINK-LIGHT BATTERY AND BULB KIT



**TYPE K30P-K.** Battery and bulb replacement kit for Polaroid Wink-Lights. Operates Wink-Lights at peak efficiency. Includes a 45-volt, metal-jacketed K30P battery, designed especially for Wink-Light operation, and a No. 428 bulb. Battery has extra-long shelf-life—metal jacket prevents leakage and corrosion. Bulb and battery are specified by camera manufacturer as direct replacements for the original Wink-Light equipment. Shpg. wt., 1 lb.

53 J 111, NET.....1.67



## BURGESS NICKEL-CADMIUM BATTERIES

High energy, compact, sealed nickel-cadmium batteries and cells. Long-lasting, economical power—may be recharged many times. Unaffected by idle periods. \*Supplied with solder lug terminals. Primaries have binding posts; others with pressure contacts. 110 hour rate (ma). Sealed in steel.

### BUTTON CELLS

| Stock No. | Type  | Volts | Size                                          | Oz. | Discharge | Ma | EACH |
|-----------|-------|-------|-----------------------------------------------|-----|-----------|----|------|
| 79 J 727  | CD1   | 1.22  | $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2   | 2         | 5  | 1.16 |
| 79 J 728  | CD2   | 1.22  | $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2   | 2         | 5  | .81  |
| 79 J 729  | CD3   | 1.22  | $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2   | 2         | 15 | 1.81 |
| 79 J 730  | CD3L* | 1.22  | $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2   | 2         | 15 | 1.03 |
| 79 J 731  | CD4   | 1.22  | $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2   | 2         | 22 | .95  |
| 79 J 732  | CD4L* | 1.22  | $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2   | 2         | 22 | 1.21 |
| 79 J 733  | CD5   | 1.22  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2   | 2         | 45 | 1.47 |
| 79 J 734  | CD5L* | 1.22  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2   | 2         | 45 | 1.60 |
| 79 J 750  | CD8   | 1.25  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2   | 2         | 10 | .90  |
| 79 J 751  | CD8L* | 1.25  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2   | 2         | 10 | .99  |

### CYLINDRICAL CELLS

|          |       |      |                                               |   |   |     |      |
|----------|-------|------|-----------------------------------------------|---|---|-----|------|
| 79 J 735 | CD6*  | 1.20 | $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2 | 2 | 45  | 1.93 |
| 79 J 736 | CD6L* | 1.20 | $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 2 | 2 | 45  | 1.93 |
| 79 J 737 | CD7   | 1.20 | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 7 | 7 | 250 | 3.50 |
| 79 J 738 | CD7L* | 1.20 | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 7 | 7 | 250 | 3.50 |
| 79 J 752 | CD9   | 1.25 | $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 3 | 3 | 90  | 3.01 |

### NICKEL CADMIUM BATTERIES

|          |      |      |                                               |    |     |       |  |
|----------|------|------|-----------------------------------------------|----|-----|-------|--|
| 79 J 739 | CD21 | 6.1  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 12 | 15  | 5.74  |  |
| 79 J 740 | CD22 | 6.1  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 12 | 22  | 5.96  |  |
| 79 J 741 | CD23 | 6.1  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 16 | 45  | 10.15 |  |
| 79 J 742 | CD24 | 7.2  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 12 | 12  | 9.31  |  |
| 79 J 743 | CD25 | 9.7  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 12 | 22  | 9.38  |  |
| 79 J 744 | CD26 | 9.7  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 16 | 45  | 15.85 |  |
| 79 J 745 | CD27 | 12.2 | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 12 | 15  | 11.56 |  |
| 79 J 746 | CD28 | 12.2 | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 12 | 22  | 11.95 |  |
| 79 J 747 | CD29 | 12.2 | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 20 | 45  | 19.50 |  |
| 79 J 748 | CD30 | 6.0  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 16 | 90  | 11.90 |  |
| 79 J 749 | CD31 | 6.0  | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 36 | 150 | 23.79 |  |

### NICKEL CADMIUM HIGH CURRENT PRIMARIES

|          |        |      |                                               |    |      |       |  |
|----------|--------|------|-----------------------------------------------|----|------|-------|--|
| 79 J 682 | CD100  | 1.25 | $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 8  | 150  | 7.46  |  |
| 79 J 683 | CD101  | 1.25 | $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 8  | 200  | 7.27  |  |
| 79 J 684 | CD102  | 1.25 | $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 12 | 350  | 8.31  |  |
| 79 J 685 | CD103S | 1.25 | $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 12 | 400  | 10.3  |  |
| 79 J 686 | CD104  | 1.25 | $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 16 | 450  | 11.81 |  |
| 79 J 687 | CD105  | 1.25 | $\frac{3}{8}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 16 | 600  | 12.80 |  |
| 79 J 688 | CD106S | 1.25 | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 16 | 700  | 15.42 |  |
| 79 J 689 | CD107  | 1.25 | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 20 | 750  | 18.41 |  |
| 79 J 690 | CD108  | 1.25 | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 32 | 1100 | 22.15 |  |
| 79 J 691 | CD109  | 1.25 | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 36 | 1500 | 24.57 |  |
| 79 J 692 | CD110  | 1.25 | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 42 | 1900 | 21.10 |  |
| 79 J 693 | CD111  | 1.25 | $\frac{1}{2}$ x $\frac{1}{2}$ x $\frac{1}{2}$ | 52 | 2300 | 17.52 |  |

Sencore Transi-Pak PS103, 0.24 v. DC power supply for charging CD batteries.  $5\frac{1}{4}$  x  $\frac{1}{2}$  x  $\frac{1}{2}$ . For 110-120 v., 60 cycle AC. 2 lbs. 83 F 985, NET.....19.55

## BURGESS PHOTO-FLASH BATTERIES

§ Designed for high initial current discharge.

| Stock No. | Mfr's Type | Volts  | Size                        | Std. Pkg. | Shpg. Wt.  | NET EACH |       | Replaces Eveready |
|-----------|------------|--------|-----------------------------|-----------|------------|----------|-------|-------------------|
|           |            |        |                             |           |            | Single   | Pkg.  |                   |
| 53 J 040  | 1208       | 1 1/2  | 1 1/2 x 1 1/2               | 48        | 4 oz.      | .18      | .16   | 835               |
| 53 J 039  | 2208       | 1 1/2  | 2 1/2 x 1 1/2               | 48        | 6 oz.      | .18      | .16   | 850               |
| 53 J 041  | 3208       | 1 1/2  | 3 1/2 x 1 1/2               | 24        | 6 oz.      | .14      | .13   | 815               |
| 53 J 070  | 42         | 4 1/2  | 3 1/2 x 1 1/2 x 1 1/2       | 6         | 3/8 lb.    | 1.05     | .95   | 726               |
| 80 J 613  | K45        | 674    | 2 1/2 x 1 1/2 x 2 1/2       | 6         | 1 1/2 lb.  | 2.66     | 2.42  | 457               |
| 80 J 531  | M30        | 45     | 3 1/2 x 1 1/2 x 3 1/2       | 1         | 2 lb.      | 2.70     | 2.45  | 482               |
| 80 J 681  | N150       | 225    | 3 1/2 x 2 1/2 x 4 1/2       | 1         | 2 1/2 lbs. |          | 6.13  | 492               |
| 80 J 682  | N60        | 90     | 3 1/2 x 1 1/2 x 3 1/2 x 1/2 | 6         | 1 lb.      | 3.47     | 3.15  | 490               |
| 53 J 076  | U10        | 15     | 1 1/2 x 3/4 x 1 1/4         | 1         | 2 oz.      |          | .81   | 411               |
| 53 J 078  | U180       | 240    | 2 1/2 x 1 1/2 x 4 1/2       | 1         | 3/4 lb.    |          | 5.56  | 491               |
| 53 J 078  | U20        | 30     | 1 1/2 x 3/4 x 2 1/2         | 1         | 2 oz.      |          | 1.23  | 413               |
| 80 J 626  | U200       | 300    | 2 1/2 x 2 1/2 x 3 1/2       | 1         | 1 lb.      |          | 8.37  | 493               |
| 80 J 682  | U320       | 510    | 2 1/2 x 1 1/2 x 2 1/2 x 1/2 | 1         | 1 1/2 lbs. |          | 11.16 | 497               |
| 80 J 682  | X1150      | 225    | 4 1/2 x 2 1/2 x 4 1/2       | 1         | 2 1/2 lbs. |          | 6.16  | 499               |
| 80 J 682  | X145       | 674    | 2 1/2 x 1 1/2 x 2 1/2       | 24        | 3/4 lb.    | 2.70     | 2.45  | 457               |
| 53 J 080  | Y10        | 15     | 1 1/2 x 1 1/2 x 1 1/2       | 1         | 1 lb.      |          | 1.05  | 494               |
| 53 J 081  | Y15        | 22 1/2 | 1 1/2 x 1 1/2 x 1 1/2       | 1         | 3 oz.      |          | .95   | 506               |



## NEW RCA ALKALINE BATTERIES

Alkaline batteries bridge the gap—both price and performance—between conventional zinc-carbon types and premium-priced mercury types. Feature much longer service and shelf life, provide more constant voltage, and cover a wider range of applications than zinc-carbon batteries. Do not require a rest period—operate with same efficiency in continuous or intermittent service. Closed in heavy steel jacket for complete protection against leakage. Av. shpg. wt., 5 oz.



| Stock No. | Mfr's Type | Volts | Size          | Std. Pkg. | NET EACH |      | Replaces |
|-----------|------------|-------|---------------|-----------|----------|------|----------|
|           |            |       |               |           | Single   | Pkg. |          |
| J 096     | VS1073     | 1.5   | 1 1/2 x 1 3/4 | 72        | .22      | .20  | Mn-9100  |
| J 097     | VS1149     | 4.5   | 1 1/2 x 2 3/4 | 24        | .71      | .65  | Mn-1300  |
| J 098     | VS1334     | 1.5   | 1 1/2 x 2 3/4 | 48        | .36      | .33  | Mn-1500  |
| J 099     | VS1335     | 1.5   | 1 1/2 x 2 3/4 | 24        | .56      | .51  | Mn-1400  |

## WILLARD RECHARGEABLE BATTERIES

pe 25-2. For Portable Radios. Compact, rechargeable battery featuring convenient, non-spill construction. Lightweight polystyrene container is extremely sturdy. 1 corrosion-proof. Supplies 2 volts for 21 amp-hours. Up to 1200 portables. 6x2 1/2 x 2 3/4". Shpg. wt., 3 1/4 lbs. Model 250 JU 024. List, \$12.80. NET.....9.41



pe ER6-2B. For Photo Flash. As above, but for 6 amp flash units. Supplies 2 v. for 6 amp-hours. Up to 3 flashes per charge. 6 1/2 x 2 1/2 x 3/4". 1 1/2 lbs. Model 250 JU 024. List, \$8.70. NET.....6.39

pe ER-34-2. For Portable Radios. Supplies 2 volts for 34 ampere-hours. Has plain posts. 4 1/2 x 3 1/2 x 4 1/2". Wt., 5 1/4 lbs. Model 250 JU 025. List, \$17.05. NET.....12.53

## SONOTONE RECHARGEABLE BATTERY

Model FC-3. Rechargeable, dry-cell flashlight battery that can be used in place of 2 "D" cells. Real investment for every steady or of flashlight power. End of dry-cell era. Exposed prongs unit plugs into any 110 v. AC outlet. Built-in charger fully charges nickel-cadmium cells overnight. Battery will power a PR-2 lb continuously for 2 hours without recharge. Leak-proof; not overcharge. Provides years of dependable service. Size, 1 1/2 x 3/4". Shpg. wt., 10 oz.

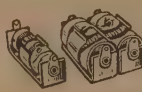


Recharges in any AC outlet... charges overnight

J 203, 4-35 EACH.....6.47 1-3, NET EACH.....6.97  
J 202, 4-35 EACH.....6.47 1-3, NET EACH.....6.97  
J 202, NET EACH.....6.97

## EYSTONE BATTERY HOLDERS

Battery holders for transistor assemblies, radios, etc., model airplanes, etc. Feature snap-plugs, moisture-proof fibre washers, mounting holes and unimono-alloy, nickel-plated eyelets. \*End to ad. Av. shpg. wt., 3 oz.



| Stock No. | Mfr's Type | Holds | Burgess    | Mallory                     | Eveready                                 | NET EACH |        |
|-----------|------------|-------|------------|-----------------------------|------------------------------------------|----------|--------|
|           |            |       |            |                             |                                          | 1-19     | 20-299 |
| J 071     | 104        | 1     |            | RM3R                        | E3                                       | 30c      | 26c    |
| J 042     | 139        | 1     |            |                             | E-9, E-12, E-13, ES02, 1015E, 505, 1015E | 23c      | 21c    |
| J 043     | 140        | 2     | Z, 9R, Y15 | RM12R, TR133R, RM502R, ZM-9 |                                          | 38c      | 34c    |
| J 044     | 171        | 2     |            |                             |                                          | 64c      | 57c    |
| J 045     | 182        | 4     | *          |                             |                                          | 45c      | 36c    |
| J 077     | 189        | 2     |            |                             |                                          | 30c      | 26c    |
| J 046     | 173        | 1     |            | TR233R                      | E233, 635,                               | 38c      | 34c    |
| J 047     | 174        | 2     |            |                             |                                          | 45c      | 36c    |
| J 079     | 185        | 2     |            |                             | 935                                      | 23c      | 21c    |
| J 048     | 137        | 2     |            |                             | 912                                      | 38c      | 34c    |
| J 049     | 186        | 2     |            |                             |                                          | 21c      | 20c    |
| J 055     | 158        | 1     | N          | TR152R                      | W468                                     | 35c      | 32c    |
| J 056     | 158        | 1     |            |                             |                                          | 21c      | 20c    |
| J 057     | 132        | 1     |            | TR132R, TR151R              | E132                                     | 30c      | 24c    |
| J 040     | 175        | 1     |            |                             | D-99, A-100                              | 30c      | 26c    |
| J 060     | 176        | 2     | Z, 24      | RM42R                       | 724                                      | 38c      | 34c    |
| J 078     | 186        | 2     |            |                             | 950                                      | 46c      | 37c    |
| J 058     | 165        | 1     | U10        |                             | 411                                      | 30c      | 24c    |
| J 059     | 177        | 2     |            |                             |                                          | 38c      | 34c    |
| J 041     | 177        | 1     | U15        | RM412R                      | 412                                      | 30c      | 24c    |
| J 062     | 183        | 1     |            |                             | 413                                      | 30c      | 24c    |
| J 063     | 184        | 2     | U20        |                             |                                          | 38c      | 34c    |
| J 064     | 225        | 1     |            |                             | 504                                      | 21c      | 20c    |
| J 069     | 226        | 1     | Y10        |                             |                                          | 35c      | 32c    |

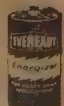
## BURGESS BATTERY ENGINEERING MANUAL

Complete data on dry batteries for the design engineer. Chapters include: Basic Information on Dry Batteries, Evaluation of Various Cell Types, Performance on Standard Tests, Curves for Estimating Dry Battery Performance, Terminal Illustrations and Dimensions, Reserve Type Power Units, etc. Illustrated, 134 pages. Size: 6 1/2 x 9 1/2". 8 K 874. Postpaid in U.S.A. ....1.00



## EVEREADY BATTERIES ALKALINE ENERGIZER BATTERIES

Revolutionary alkaline energizer batteries specially designed for high drain, continuous service applications. Deliver higher amperage over a much longer period than do standard flashlight batteries. Also feature longer shelf life and greater recuperative power than conventional zinc-carbon types. Maintain constant output during periods of discharge. Ideal for use in portable TV sets, flashlights, heating element applications, and other general uses.



| Stock No. | Mfr's Type | Volts | Contacts | Size                  | Oz. E. | Std. Pkg. | NET EACH |
|-----------|------------|-------|----------|-----------------------|--------|-----------|----------|
| 533 214   | E91        | 1 1/2 | Flat     | 3/4 x 1 1/2 x 1 1/2   | 2      | 12        | .36      |
| 533 240   | E93        | 1 1/2 | Flat     | 1 1/2 x 1 1/2 x 1 1/2 | 4      | 12        | .39      |
| 534 782   | E95        | 1 1/2 | Flat     | 1 1/2 x 2 1/2 x 1 1/2 | 2      | 12        | .36      |
| 781 773   | E95        | 1 1/2 | Flat     | 1 1/2 x 2 1/2 x 1 1/2 | 1 1/2  | 12        | .54      |
| 533 216   | E97S       | 1 1/2 | Screw    | 1 1/2 x 2 1/2 x 1 1/2 | 9      | 12        | .80      |
| 533 217   | E92        | 6     | Screw    | 2 1/2 x 2 1/2 x 1 1/2 | 40     | 1         | 2.99     |

## NEW CATHODIC ENVELOPE BATTERIES

Zinc-carbon cathodic envelope batteries employ unique "sandwich" type construction to provide 50 to 100% more service-life than conventionally-constructed types. Zinc anode plate is placed between two flat cakes of cathode mix; metal foil surrounding "sandwich" serves as cathode collector. Foil, in turn, is bonded to an outer plastic envelope which erases and seals cell. Required number of cells are then enclosed in a weatherproof battery case. This construction permits both sides of the anode to be used on, and allows large surface areas of cathode collector and cathode mix to come in contact with each other—assuring long service-life; lowest cost-per-hour operation.



| Stock No. | Mfr's Type | Volts | Contacts  | Size                  | Lbs. Wt. | NET EACH |
|-----------|------------|-------|-----------|-----------------------|----------|----------|
| 53 J 113  | 2356       | 9     | Snap      | 6 1/4 x 1 1/4 x 2 3/4 | 1 1/2    | 1.10     |
| 79 J 783  | 2709       | 9     | Snap      | 4 1/4 x 1 1/4 x 1 1/2 | 1 1/2    | 1.05     |
| 53 J 114  | 2713       | 6     | Min. Snap | 4 1/4 x 1 1/4 x 1 1/2 | 3/2      | .71      |
| 53 J 115  | 2731       | 4 1/2 | Socket    | 8 1/2 x 1 1/2 x 2 3/4 | 3        | 1.93     |
| 53 J 116  | 2744       | 6     | Socket    | 3 1/2 x 2 1/2 x 2 3/4 | 1 1/2    | 1.10     |
| 53 J 117  | 2745       | 6     | Springs   | 4 1/4 x 2 1/4 x 2 3/4 | 1 1/2    | 1.10     |
| 53 J 118  | 2746       | 6     | Screw     | 4 1/4 x 2 1/4 x 2 3/4 | 1 1/2    | 1.10     |
| 53 J 119  | 2761       | 9     | Socket    | 7 1/4 x 1 1/4 x 2 3/4 | 1 1/2    | 1.58     |
| 53 J 121  | 2780       | 12    | Socket    | 8 1/2 x 1 1/2 x 2 3/4 | 3        | 2.37     |

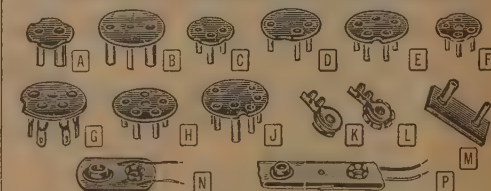
## NO. 6 STANDARD IGNITOR BATTERY

Rugged, long-life, 1 1/2 volt general-purpose dry cell battery. Ideal for industrial use, annunciator and signal systems, battery operated ignition systems, farm lanterns and radios, telephone systems, etc. Provides 10 ampere-hours of current. Highly active depolarizing agents assure rapid recuperation of battery between uses. Battery maintains constant output of current during discharge. Size, 6 1/2 x 2 3/4" diameter. Equipped with screw terminals. Shpg. wt., 2 lbs.



80 J 767, Lots of 12, EACH.....84c 1-11, EACH.....92c

## CINCH-JONES PLUGS FOR BATTERIES

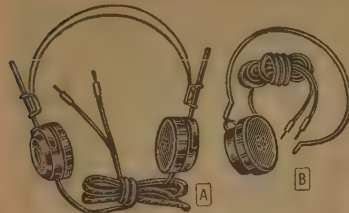


\*5 prongs, 5 Fahnestock clips. Av. shpg. wt., 1 oz. 2 per pkg.

| Stock No. | Type  | Fig. | For Burgess Battery                                       | For RCA Battery                                        | Pkg. |
|-----------|-------|------|-----------------------------------------------------------|--------------------------------------------------------|------|
| 54 J 024  | 5A1   | A    | 2F, 4F, 6F, 8F, 2D, 8R                                    | VS04, VS069, VS070, VS141                              | 10c  |
| 54 J 027  | 5A5   | B    | B5, C5, J5                                                | VS065                                                  | 8c   |
| 54 J 028  | 5B1A  | C    | XX15, XX22, XX30P1                                        | VS012, VS014, VS014, VS015                             | 12c  |
| 54 J 076  | 5B2-1 | D    | A3C, B30, M30, W30P1, 230, 10308P1                        |                                                        | 14c  |
| 54 J 036  | 5C-2  | E    | 5156P1                                                    |                                                        | 12c  |
| 54 J 028  | 5A2   | G    | 2TXX40, 4CA42, G6B60, F6A60P, S6D60, T6Z60P               | VS047, VS058, VS059                                    | 10c  |
| 54 J 072  | 6K4   | H    | G6B60, F6A60, G6D60, F6A60, G6M60, S6D60, T6Z60, M6Z60    | VS019, VS050, VS057W                                   | 12c  |
| 54 J 023  | 5AB1  | I    | P6, D5, P6M, M6                                           | VS004, VS315, VS320, VS318                             | 14c  |
| 54 J 031  | 5AB7  | J    | XX45, XX30, XX50, K45, P45, P45M, P60, D6, 4D4, N60X, C6X | VS082, VS217, VS082, VS218, VS219, VS219, VS306, VS316 | 10c  |
| 54 J 026  | 5A3   | M    | D3, F3, G3                                                | VS067, VS072                                           | 8c   |
| 54 J 021  | 5A4   | M    | 2F4, F4P1, XX15, XX22, XX30P1                             | VS086, VS323, VS312                                    | 8c   |
| 54 J 037  | 5D    | N    | U30, 2U6, 2N6, UX45                                       | VS082, VS218, VS215, VS219, VS316                      | 54c  |
| 54 J 073  | 5D1   | P    | XX50, P45, P45M, P60, N60X, C6X                           | VS090                                                  | 54c  |
| 54 J 074  | 5D2   | P    | N60                                                       | VS016, VS035, VS082                                    | 54c  |
| 54 J 075  | 5DFA  | P    | XX45, XX30, K45                                           |                                                        | 54c  |

# Lincoln and Cannon Headphones

## LINCOLN HEADPHONES AND ACCESSORIES



### STANDARD DUAL HEADPHONES

**A** Have double headband with firmly gripping, easily adjustable yokes. Powerful Alnico permanent magnets for efficiency over wide frequency range. 1 7/8" diaphragm. 4 1/2 ft. cords are cotton-covered tinsel. Inside terminal shock-resistant connections. Shpg. wt., 1 1/4 lbs.

59 D 110. 2000 Ohms. NET.....2.08  
59 D 111. 3000 Ohms. NET.....2.16  
59 D 149. 4000 Ohms. NET.....2.24  
59 D 141. 11 Ohms. NET.....2.08

### SINGLE HEADPHONES

**B** Dependable, economy-priced single phones. Suitable for hard-of-hearing installations, receivers, crystal sets, Geiger counters, etc. Diaphragm is 1 7/8" in diameter. Has spring-metal headband which is permanently attached to back of case. Equipped with 4 1/2 ft. cotton-covered tinsel cord. Shpg. wt., 8 oz.

59 D 112. 1000 Ohms. NET.....1.07  
59 D 113. 1500 Ohms. NET.....1.15



### LINCOLN TRANSISTOR RADIO EARPICES

Replace earpieces in popular transistor radios listed below. Complete with 3-ft. cord and plug. Shpg. wt., 5 oz.

| Stock No. | For Use With                                                                                                                                                                       |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 59 D 198  | Motorola, RCA, Philco, Zenith, Magnavox, Sonora, Sylvania, Spartan, Airline, Regency, Admiral, Roland, Gambles, Traveler, Western Auto, Arvin, Emerson, and most Japanese imports. |
| 59 D 109  | Westinghouse, Packard-Bell, Hoffman, Solar                                                                                                                                         |
| 59 D 145  | All General Electric models                                                                                                                                                        |

NET EACH.....1.67

### EARPIECE FOR TV

For private listening with any TV set. Gives crisp, clear reproduction. May be worn for hours without fatigue. Alligator clips connect to voice coil terminals on speaker. Has 20-ft. cord. Shpg. wt., 8 oz.

59 D 192. NET.....3.75

### EARPIECES WITH PHONE PLUGS

For communications use, short wave listening, code practice or class use. With standard phone plug attached. Also for use with stereo and monophonic earpiece bands. 5-ft. cord included. Shpg. wt., 5 oz.

59 D 166. 15 ohms. 59 D 134. 2000 ohms.  
59 D 124. 120 ohms. 59 D 167. 8000 ohms:  
NET EACH.....2.42



### CANNON-BALL RADIO HEARING AID

Popular, low-priced hearing aid for any radio or TV set. Specially-constructed low-impedance headphone matches the output of radio or TV set. Built-in selector control switch permits listening with speaker only, headphone only, or both speaker and headphone simultaneously. Complete with control box, connecting cables for attachment to speaker and attachment of headphone to control box, instructions and diagram. Shpg. wt., 1 lb.

59 D 118. NET.....3.38

Have adjustable headbands, Hyflux Alnico magnets, internal terminal connections. Cap and case are molded bakelite. All headphones with 4 1/2 ft. cord of cotton-covered tinsel, standard phone tip terminals. Choice of single or dual types; low-impedance models may be inserted directly at loudspeaker tap.

### INSTITUTIONAL DUAL HEADPHONES

(Not illus.) For schools, hospitals, and other institutions where dependable, lightweight headphones are needed. Durable, easily cleaned bakelite cases, inside terminal connections for safety. Alnico magnets provide crisp, clear reproduction of voice and music. 4 1/2 ft. cord. Comfortable, easily adjustable, plastic headband. Shpg. wt., 1 1/4 lbs.

59 D 100. 2000 Ohms. NET.....2.20  
59 D 101. 3000 Ohms. NET.....2.28

### HEADPHONE REPLACEMENT PARTS

Replacement parts for the Lincoln headphones listed on this page.

| Stock No. | Description          | Wt. Oz. | EACH NET |
|-----------|----------------------|---------|----------|
| 59 D 104  | Diaphragm, Pkg. of 2 | 2       | 13¢      |
| 59 D 106  | Bakelite cap         | 2       | 13¢      |
| 59 D 174  | Headband with yokes  | 9       | 58¢      |

### HEADPHONE CORDS



Copper conductor covered with woven cotton braid. Have 2 phone tips at one end; \*refers to opposite end of cord. For phones on this and following pages. Wt., 2 oz.

#### 4 1/2 Ft. Double Cords

| Stock No. | *Terminals For Use With           | NET EACH                                                        |
|-----------|-----------------------------------|-----------------------------------------------------------------|
| 59 D 220  | Eyelet type. For inside terminals | 59 D 100-101, 110-111, 125, 126-127, 135, 136-137, 215 59 D 130 |
| 59 D 205  | Eyelet type                       | Govt. and military types 59 D 070                               |
| 59 D 206  | Has phone tips on both ends       |                                                                 |
| 59 D 002  | Small blunt tips                  |                                                                 |

#### 5 Ft. Double Cords

|          |                  |              |     |
|----------|------------------|--------------|-----|
| 59 D 006 | Eyelet type      | 59 D 020-021 | 54¢ |
| 59 D 181 | Large blunt tips | 59 D 151-163 |     |

#### 6 Ft. Double Cords

|          |                  |              |     |
|----------|------------------|--------------|-----|
| 59 D 004 | Eyelet type      | 59 J 000-001 | 58¢ |
| 59 D 007 | Large blunt tips | 59 D 040     |     |

#### 8 Ft. Double Cords

|          |                             |                             |     |
|----------|-----------------------------|-----------------------------|-----|
| 59 D 221 | Eyelet type                 | Same as type 59 D 220 above | 74¢ |
| 59 D 218 | Eyelet type                 | 59 D 130                    |     |
| 59 D 219 | Has phone tips on both ends | Govt. and Military type     |     |

#### Single Cord

|          |                             |              |     |
|----------|-----------------------------|--------------|-----|
| 59 D 200 | 4 ft. cord with eyelet type | 59 D 112-113 | 33¢ |
|----------|-----------------------------|--------------|-----|

### RUBBER PHONE CUSHION



Molded rubber ear cushions slip over phones. Provide maximum wearing comfort. Wt., 6 oz.

59 D 168. NET, PAIR. 64¢  
10 or More Pairs, PER PAIR.....58¢

## C. F. CANNON HEADPHONES AND ACCESSORIES



BRANDES BS-2 "SUPERIOR" PHONES. Rugged 2000 ohm headset. Has outside terminals, metal cases, bakelite caps, 2 1/4" diaphragm, 2 coils in each case. Comfortable, metal headband is easily adjusted to the desired size. 4 1/2 ft. cord included. Shpg. wt., 1 1/4 lbs.

59 D 130. NET.....2.50

BRANDES "ADMIRAL" PHONES. Similar to above but with inside terminals.

59 D 135. BA-2. 2000 ohms. NET.....2.50

59 D 136. BA-3. 3000 ohms. NET.....2.66

59 D 137. BA-5. 5000 ohms. NET.....3.08

REPLACEMENT CAPS AND DIAPHRAGMS. For "Superior" and "Admiral" phones, above.

59 D 138. Caps. Wt., 2 oz. EACH.....21¢

59 D 140. Diaphragms. 2 oz. Pkg. of 2 13¢



CANNON-BALL "MASTER" PHONES. High-quality headset for communications and general-purpose applications. Cases are metal, with bakelite caps. Terminals are inside of case for maximum safety from tampering. Chrome steel magnets produce strong field, and resist corrosion. With cord. Wt., 1 1/4 lbs.

59 D 215. MC-2. 2000 ohms. NET.....2.50

59 D 125. MC-3. 3000 ohms. NET.....2.65

59 D 126. MC-5. 5000 ohms. NET.....2.92



CANNON-BALL CC-2 "CHIEF" PHONES. Sensitive and practical headset for all general use. Inside terminal connections. 2 1/4" diaphragms; bakelite case and cap. Vinyl plastic covered headband, 2000 ohms. With

4 1/2 ft. cord. Shpg. wt., 1 1/4 lbs.

59 D 172. NET.....2.42

REPLACEMENT CAPS AND DIAPHRAGMS. For "Master" and "Chief", above. 2 oz.

59 D 127. Caps. EACH.....21¢

59 D 129. Diaphragms. Pkg. of 2.....13¢

### CANNON TV HEADPHONE KIT



High-quality listening device to aid hard-of-hearing, or provide private, "silent" listening when others might be disturbed by loud-speaker operation. Volume control and Speaker-Phones switch on control box. Supplied with 15-ft. cord, and two pairs of headphones. Shpg. wt., 3 lbs.

59 D 175. NET.....9.20

SINGLE HEADSET KIT. Same kit as above, but with only one pair of phones. 2 lbs.

59 D 176. NET.....6.93

CONTROL BOX ONLY. Shpg. wt., 9 oz.

59 D 177. NET.....4.62

11-OHM DUAL HEADSET. Wt., 1 1/4 lbs.

59 D 173. NET.....2.42



# Telex and Fedtro Earphones, Accessories



## TELEX EARPHONES FEATURE COMFORT, CLARITY AND DURABILITY

### METAL MONOSSET

Exceptionally comfortable, lightweight headphones, designed to eliminate fatigue and strain when headphones must be worn continuously for long periods. Total light is only 1.2 ounces. Magnetic type receiver for crystal clear reproduction and rugged dependability. Light, metal housing with comfortable ear pieces. White plastic plugs remove for cleaning. Less weight, use 59 D 253 at right. Shpg. wt., 8 oz.

59 D 281, Model HMY-01, 2000 ohms. List Each, \$9.00, NET EACH.....5.40

TH CORD. Monosets as above, with 5-foot cord and standard plug. Shpg. wt., 12 oz.

59 D 222, Model HMY-2, 2000 ohms. List Each, \$12.50, NET EACH.....7.50

### HI-FI DYNASET

Model HUP-01. Under-the-chin dynamic headset of superior quality. Receiver consists of a tiny, 3/4"-diameter 6-ohm loudspeaker built into the plug. Extremely sensitive; frequency response extends from 50 to 20,000 cycles at 25 mw. Speaker diaphragm projects sound through 60-inch flexible tubing into headset. Attractive light gray finish. Shpg. wt., 6 oz.

59 D 239, List, \$14.75, NET.....8.85

### DYNAMIC PILLOW SPEAKER

Model SDN-2. An under-the-pillow loudspeaker with great power-handling ability; provides exceptionally clear, natural tone without any disturbance to others who may be sleeping nearby. Ideal for institutional use, or private listening at home to radio or TV set. 3.2 ohm voice coil matches most small radios and portable TV sets. With 5-foot cord and standard phone plug. 1 1/2" dia. 1 1/2" thick. Wt., 6 oz.

59 D 276, List, \$10.19, NET.....6.12

Model SDM-2. As above, but 10,000 ohms.

59 D 277, List, \$12.11, NET.....7.26

### TWINSET

An important innovation in headset design—nothing touches the ears! Sensitive receivers rest lightly at the temples; tangle-free "pipes" send sound directly into ears; block out background noise. Perfect for study, fatigue-free listening; weighs only 1.6 ounces. \*Approved by the F.A.A. for both airlines and private planes. With two extra ear tips. Steel head band in Teptite plastic. Comes without cord, uses 59 D 270 at right. Shpg. wt., 8 oz.

59 D 264, Model HTW-01\*, 500 ohms. List Each, \$17.50, NET EACH.....10.50

TH CORD. Twinsets as above, with 5-foot cord and standard plug. Shpg. wt., 12 oz.

59 D 289, Model HTW-2\*, 500 ohms. List Each, \$21.00, NET EACH.....12.60

### TELE-FI HEADSET

Features unique design: 1 millisecond delay between earpieces provides clarity and intelligibility. Receiver may be disconnected for one-ear use with plastic ear bow. Weighs only 1/2 oz! With cord and plug.

59 D 214, Model HFR-91, 15 ohms.

59 D 257, Model HFV-91, 128 ohms.

59 D 258, Model HFX-91, 1000 ohms.

59 D 217, Model HFY-91, 2000 ohms. List Each, \$12.35, NET EACH.....7.41

### MIDGET EARSET

Lightweight individual earsets—weigh only 1/2 ounce! Scientifically contoured to fit the ear. Response: 50-4000 cps. With 5' cord and plug. Shpg. wt., 6 oz.

| Stock No. | Type  | Description     | Ohms |
|-----------|-------|-----------------|------|
| 59 D 202  | EPR-2 | Plastic ear bow | 15   |
| 59 D 203  | EPV-2 | Plastic ear bow | 128  |
| 59 D 204  | EPX-2 | Plastic ear bow | 1000 |
| 59 D 207  | EPY-2 | Plastic ear bow | 2000 |
| 59 D 208  | EMR-2 | Metal ear bow   | 15   |
| 59 D 209  | EMV-2 | Metal ear bow   | 128  |
| 59 D 211  | EMX-2 | Metal ear bow   | 1000 |
| 59 D 212  | EMY-2 | Metal ear bow   | 2000 |

List Each, \$9.00, NET EACH.....5.40

### TELE-TWIN STEREO HEADSET

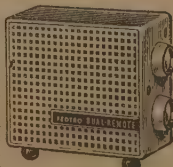
Provides genuine stereophonic listening. Offers high-quality, balanced stereo without the expense of two or more speaker systems. Connects in minutes to any stereo radio, tape deck, etc. \*Dual volume controls. With 5-ft. cord, plug, in-line jack with color coded 18' leads, instructions. Shpg. wt., 8 oz.

| Stock No. | Type    | Ohms | NET   |
|-----------|---------|------|-------|
| 59 D 340  | HAV-13  | 128  | 13.50 |
| 59 D 341  | HAV-13  | 2000 | 13.50 |
| 59 D 342  | *HAY-73 | 128  | 23.40 |
| 59 D 343  | *HAY-73 | 2000 | 23.40 |

### FEDTRO PERSONAL DUAL REMOTE-CONTROL SPEAKER

Enjoy personalized listening. For use with TV sets, radios, and phonos. Has 2 controls—one adjusts set volume, other adjusts remote speaker. Either speaker can be turned all the way off, or both can be on simultaneously. Easy to install—connect cable from remote unit to speaker leads in radio or TV set. In high-impact ivory plastic case with 20' remote cable. Imported from Japan. Shpg. wt., 1 lb.

81 P 039, NET.....4.29



### MAGNETIC PILLOW SPEAKER

Exceptionally small; for radio and TV listening through a pillow without disturbing others. For home or institutional use. Red waterproof plastic. 3/4"x1 1/4" dia. Comes complete with 5-foot cord and plug. Shpg. wt., 10 oz.

59 D 226, Model SMY-2, 2000 ohms.

59 D 227, Model SMV-2, 128 ohms. List Each, \$11.25, NET EACH.....6.75

### USEFUL TV "LISTENER"

Model LCP-90. Use wherever individual listening is required. Can be used by two people with extra earset, below. Has volume control and switch to turn TV speaker on or off. Control unit has 15' cord; earset, 4' cord. 3 1/2"x1". Shpg. wt., 6 oz.

59 D 292, List, \$16.25, NET.....9.75

Model ELV-98. Extra earset, cord and plug. Shpg. wt., 3 oz.

59 D 292, List, \$7.50, NET.....4.50

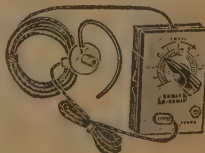
### CORDS, EXTRA TIPS AND ACCESSORIES

| Stock No. | Description                       | For Use With                     | NET EACH |
|-----------|-----------------------------------|----------------------------------|----------|
| 59 D 270  | Type CMN-2 cord w/std. 1/4" plug  | Twinset and mag. pillow speakers | 2.10     |
| 59 D 253  | Type CMT-2 cord w/std. 1/4" plug  | All sets other than above.       | 2.10     |
| 59 D 246  | Type VVM-2 cord, w/volume control | Twinset and mag. pillow speakers | 7.35     |
| 59 D 297  | Type AEF-1 Plastic earframe       | All earsets                      | .48      |
| 59 J 242  | Type JMP-01 Jack, closed circuit  | 59 J 243                         | .24      |
| 59 J 243  | Type PM-01 Min. phone plug        | 59 J 242, 59J254                 | .36      |
| 59 J 254  | Type JMP-02 Jack, open circuit    | 59 J 243                         | .24      |
| 59 D 295  | Type ATT-1 White plastic ear tips | All Boomsets & Twinsets          | .09      |
| 59 D 296  | Type AMT-2 Earplugs               | Metal Monosets and Dynasets      | .09      |
| 59 D 252  | Type CWM-92 cord w/90° 3/4" plug  | Twinset and mag. pillow speakers | 1.89     |

### FEDTRO "PRIVATE-LEE" RADIO-TV EARPHONE SET

An excellent private-listening outfit, easily connected to any radio or TV set. Comfortable, lightweight earpiece. Ivory-plastic control box with volume control and 17 ft. cable. Control box has 2 jacks; one jack mutes speaker for listening on earpiece only. Other jack for sound from both speaker and earpiece. Shpg. wt., 1 lb.

59 D 255, List, \$12.95, NET.....5.10



# Headphones and Accessories



## CLEVITE "BRUSH" HEADPHONES

**A** BA-200 Headphones. Very sensitive headphones with high impedance (45,000 ohms at 1000 cps.). Frequency response, 100 to 5000 cps. Cone type diaphragm. Molded plastic case shaped for maximum comfort. Require small DC blocking capacitor for DC circuits. With 5-ft. cord and headband. Shpg. wt., 2 lbs.  
59 D 151. NET ..... 16.90

**A** NEW BA-200B Headphones. Same as BA-200 above, but for stereophonic use. Shpg. wt., 2 lbs.  
59 D 260. NET ..... 19.11

**B** BA-201 Headphone. Similar to model BA-200 but, single headphone. 90,000 ohms (1000 cps). Shpg. wt., 1 lb.  
59 D 156. NET ..... 14.65



**C** BA-220 Headphones. Single-cord headphones with ear cushions for stereo or monophonic listening. Response, 50-10,000 cps. Impedance, 50,000 ohms. Shpg. wt., 2 lbs.  
59 D 052. NET ..... 33.81

**D** BA-215 Ear Cushions. Foam rubber cushions that fit most headphones. Formed to fit the ear. Shpg. wt., 5 oz.  
59 D 053. NET PER PAIR ..... 3.28

**Hi-Fi Headsets.** (Not illus.) Double headphone sets that feature uniform frequency response, low distortion and excellent bass response. Lightweight for maximum comfort. Impedance indicated is at 1000 cps. \*For stereo use. Shpg. wt., 2 lbs.

| Stock No. | Type     | Impedance    | Response      | NET   |
|-----------|----------|--------------|---------------|-------|
| 59 D 163  | BA-206   | 50,000 ohms  | 50-10,000 cps | 30.28 |
| 59 D 154  | *BA-206B | 100,000 ohms | 50-10,000 cps | 32.54 |

## TRIMM HEADPHONES AND ACCESSORIES



**E** "Military" Type. Constructed to meet military headphone specifications. Impedance, 20,000 ohms; DC resistance, 2,000 ohms. Metal shell with bakelite cap. 6 ft. cord. Inside terminals. Rubber-covered headband. Shpg. wt., 1½ lbs.  
59 D 040. NET ..... 11.76

**F** "Featherweight" Type. Weigh less than 5 ounces. Black bakelite caps and shells. Forged magnets; pole pieces of permalloy. Impregnated coils. Supplied with flexible 6-ft. moisture-proof braided tinsel cord. Enclosed terminals. Shpg. wt., 9 oz.  
59 D 000. Standard. 4000 ohms.  
59 D 001. Special. 24,000 ohms.  
NET EACH ..... 6.47

59 D 042. Diaphragms. For either of above headphones. Wt., 2 oz. EACH. 15c  
59 D 013. Replacement Caps. For "Featherweight" phones. 2 oz. EACH. 41c

**G** "Dependable" Type. Magnetic headphones for general use. Bakelite caps and shells. Forged magnets of chrome steel, impregnated coils. 5-ft. cord. Inside terminals. Have comfortable plastic-covered headband. Shpg. wt., 1½ lbs.  
59 D 268. 32 ohms. NET ..... 3.00  
59 D 020. 3000 ohms. NET ..... 3.35  
59 D 021. 4000 ohms. NET ..... 3.53  
59 D 030. Replacement Caps. EACH. 35c  
59 D 031. Extra Diaphragms. EACH. 12c

**H** "Acme" Low-Cost Type Headphones. Sensitive headphones designed for every use. 2000 ohm impedance. Sturdily constructed for dependable performance under all conditions. 4½-ft. cord. Shpg. wt., 8 oz.  
59 D 070. NET ..... 2.12

Extra Diaphragms. For above. 2 oz.  
59 D 012. EACH ..... 12c

## LORGNETTE TYPE EARPHONE



Hand-held type hearing aid. Same construction as "Featherweight" phones above. For use in churches and theaters. Earphone size, 2¼" dia. x ¾" thick. Handle extends to 14". Impedance, 4500 ohms. With flexible, braided 6-ft. cord and plugs. Shpg. wt., 10 oz.  
59 D 036. NET ..... 5.88

## THRILLING STEREO REALISM

Knight KN-840  
STEREO HEADSET

\$19.95

Full-Range  
Response—20-16,000 cps.



## KNIGHT HIGH-FIDELITY STEREO HEADSET

- Feather-Weight Die-Cast Aluminum Frame
- Dual Adjustments for Maximum Comfort
- Hyperbolic Baffle for Uniform Response

Designed by specialists skilled in all phases of high-fidelity, the KN-840 Stereo Headset is your key to thrilling adventures in stereo listening. Offers undistorted, full-range response, plus light-as-a-feather, aluminum alloy construction. Enjoy concert-hall realism in complete privacy—free of external noises and without disturbing others. Perfect for accurate tape monitoring. Each earcap is a carefully designed hi-fi speaker. Features efficient, electrodynamic driver and hyperbolic baffle to provide beautifully balanced sound. Acoustic mesh in driver cavity provides uniform bass response. Built to last, the attractively styled KN-840 successfully avoids the bulky, complex look of many ordinary headsets—it is trim and neat in appearance, "Flexiform" seals prevent the loss of bass response without annoying pressure. Listen for hours without fatigue. Response: 20-16,000 cps. For low-impedance outputs: 16 to 600 ohms. With 3 ft. cord. Shpg. wt., 2 lbs.

35 DX 706. ONLY ..... 19.95



## KN-841 CHAIRSIDE CONTROL UNIT

Designed for use with the KN-840 Stereo Headset. The separate level and balance controls make it convenient for you to use it as a chairside remote control. Stereo-mono switch parallels the signal when in the mono position for monophonic feed to each earpiece. Shpg. wt., 1 lb.

90 R 874. NET ..... 5.95

## GENERAL PHONES CLC-B STEREO HEADSET



Latest model stereo headset perfect for listening to stereo hi-fi music systems. Preserves full 3-dimensional stereo effect and reproduces with outstanding clarity and realism. True concert-hall effect. Features

hermetically sealed, variable reluctance design for extremely wide, remarkably smooth response—from 20-17,500 cps. Neoprene ear cushions are unaffected by dust, dirt and humidity. Match impedance of any stereo or monophonic high fidelity amplifier from 3.2 to 16 ohms. Comfortable and light in weight with rubber-covered, chrome-plated, self-locking headband. Supplied complete with 6-ft. nylon-covered 4-conductor cord. Shpg. wt., 1½ lbs.

59 D 339. NET ..... 29.40

## TRIMM INDIVIDUAL VOLUME CONTROL



Consists of phone jack and volume control mounted in compact box. Ideal for group hearing aid systems in theaters, churches, schools, etc. Resistance: 10,000 ohms. Size: 3¼ x 2½ x 1¼". Shpg. wt., 1 lb.  
59 D 056. Brown wrinkle.  
59 D 057. Glossy Ivory.  
NET EACH ..... 3.23



# Headphones—Knight, Utah Speakers, Grilles

## Thrilling Stereo Realism

### KOSS STEREO HEADSET EQUIPMENT

del SP-3 Stereophones. Exceptionally fine headset adds a new dimension of enjoyment to any stereo or monophonic music system. Brill to concert-hall realism without disturbing others—and without roving outside noises. This comfortable headset has 3½" dynamic producers in each earphone for rich response from 20-15,000 cps. Impedance, 4 ohms. Comes complete with 8' cord and T-2 stereo phonic plug for connecting to amplifier. Shpg. wt., 2 lbs.



1 D 178. NET..... 24.45

Hook-Up Box. Contains matching transformers for monitoring 3 to 10,000 ohm outputs of tape recorders, tuners, preamps, etc. to jacks for Stereophones. Size, 2½x2x4". Shpg. wt., 8 oz.

1 D 189. NET..... 6.81

Junction Box. For connecting Stereophones to existing stereo items. Has two output jacks. Has volume control and speaker -OFF switch. Imp. 4 to 16 ohms. ¾x2x4". Wt., 8 oz.

1 D 188. NET..... 7.79

## S. G. BROWN "SUPER K" HEADPHONES



New headphones specifically designed for use with stereo and high-fidelity systems. Two moving-coil, watch-type receivers incorporate Alcomax magnets with extremely high flux density—provide smooth response from 25 to 17,000 cps. New type close-coupled ear pieces provide extremely comfortable fit, practically eliminate outside noises. New type headband is easily adjustable, no lock screws needed. With sturdy, bifurcated, washable cord. From Great Britain. Shpg. wt., 2 lbs.

59 D 298. NET..... 32.50

## OUTDOOR PORTABLE SPEAKER

Highly versatile, ruggedly-built extension speaker. Slip-on connection makes it easy to attach to any radio or TV set. Set it on the handy stand supplied or hang it from a wall, nearby tree, etc. Guaranteed weatherproof, it may be left outdoors all year around. Complete with 20 ft. of cable and alligator clips. Blue with chrome grille. 3" deep; 6" diameter. Employs full-toned 4" permanent magnet type speaker. Shpg. wt., 1¼ lbs.

1 P 067. NET..... 4.95



## NEW UTAH UNIVERSAL REPLACEMENT SPEAKERS

Wide selection of high efficiency, smartly designed speakers. For universal replacement and installation in original equipment. Heavily cadmium-plated, dust-proof construction. All have 3-4 ohms voice coil impedance. Models indicated by \* have transformer mounting brackets or facilities. Figures indicated are frame width. P.C. has cushion shaped frame.



| Stock No. | Type   | Size | Shape  | Mag. Wt. | Shape | Lbs. | NET  |
|-----------|--------|------|--------|----------|-------|------|------|
| 2 P 900   | SP4A*  | 4"   | Square | .75 oz.  | 4     | 1½   | 2.32 |
| 2 P 901   | SP4B*  | 4"   | Square | 1.0 oz.  | 4     | 1½   | 2.56 |
| 2 P 902   | SP4V   | 4"   | Square | .55 oz.  | 4     | 1½   | 1.73 |
| 2 P 903   | SP5V   | 5"   | P.C.   | .55 oz.  | 4     | 1½   | 2.06 |
| 2 P 904   | SP8D*  | 7½"  | P.C.   | 1.47 oz. | 6     | 1½   | 4.09 |
| 2 P 905   | SP8G*  | 8"   | Round  | 3.16 oz. | 10    | 2    | 5.29 |
| 2 P 906   | SP15A* | 3½"  | Square | .68 oz.  | 3     | 1½   | 3.97 |
| 2 P 907   | SP6B   | 6½"  | Oval   | 1.00 oz. | 4     | 1½   | 4.35 |
| 2 P 908   | SP6D   | 6½"  | Oval   | 1.47 oz. | 4     | 1½   | 4.97 |
| 2 P 909   | SP14A  | 4"   | Square | .68 oz.  | 4     | 1½   | 1.97 |

## SPEAKER GRILLES

Inlustrative: chrome finish—e-gar grilles for either 5x7" or 6x9" rear deck speakers. Durable finish stays bright for years of wear. Include all mounting hardware. Av.

Shpg. wt., 1 lb.

2 P 251. For 6x9" Speaker. NET..... 1.31

2 P 252. For 5x7" Speaker. NET..... 1.06



## KNIGHT SPEAKER VALUES

### STANDARD REAR-DECK SPEAKER KITS

As Low As \$375

A value-packed luxury item at remarkably low cost. These economically priced, rear-deck speaker kits are ready for quick, trouble-free installation in any car. Assure excellent tonal quality and greatly improved sound distribution. Have dash-mounted control switch, top-quality PM speaker. Nothing else to buy—contains instructions, wire, template, and prewired switch.



| Stock No. | Size | Grille | Lbs. | NET  |
|-----------|------|--------|------|------|
| 81 P 558  | 5x7" | Gray   | 2    | 3.75 |
| 81 P 559  | 5x7" | Chrome | 2    | 3.92 |
| 81 P 501  | 6x9" | Gray   | 2½   | 4.50 |
| 81 P 502  | 6x9" | Chrome | 2½   | 4.64 |

## DELUXE REAR DECK SPEAKER KIT

As Low As \$464

High-quality extended-range rear deck speaker kit. Has duo-type 6x9" speaker with specially designed high-frequency cone mounted at its center. Provides rich, balanced reproduction of bass and treble. Employs the natural baffle of the automobile body to deliver smooth reproduction throughout the entire audio range. Handsome grille is available in your choice of two finishes.

A dash-mounted, 3-way speaker switch permits playing the radio speaker only, duo-speaker only, or both speakers simultaneously. Allows all passengers to hear the radio broadcasts at a comfortable listening level. Eliminates the need for turning up front-seat volume. Comes complete with all hardware, dash switch, wire and complete installation instructions. Shpg. wt., 2½ lbs.

81 P 135. With Gray Grille. NET..... 4.64

81 P 134. With Chrome Grille. NET..... 4.81

## TOP BUYS IN COAXIAL SPEAKERS

As Low As \$620

Outstanding coaxial speaker values for budget-minded music lovers. Ideal for use in economy hi-fi systems, as extension speakers in recreation room or den, and for improving the tone of radios and phonographs. Reproduce clear highs and faithful lows. Impedance, 8 ohms. Large "Alnico V" magnets. Built-in crossovers.



8" Coaxial Speaker. 8" cone. Has large 2.15 ounce magnet. Handles up to 8 watts. Frequency response: 55-12,000 cycles. Crossover frequency: 3000 cycles. Shpg. wt., 3 lbs.

81 P 607. NET..... 6.20

12" Coaxial Speaker. 12" cone; has 6.8 oz. magnet. 3½" tweeter with 1 oz. magnet. Rated at 15 watts. Range: 55-12,000 cycles. Crossover: 2000 cycles. Shpg. wt., 8 lbs.

81 PX 638. NET..... 9.70

15" Coaxial Speaker. 15" cone; has 6.8 oz. magnet. 5" tweeter with 1.47 oz. magnet. Rated at 20 watts. Range: 45-12,000 cycles. Crossover frequency: 1800 cycles. Shpg. wt., 11 lbs.

81 PX 608. NET..... 14.91

## REPLACEMENT SPEAKER VALUES



Excellent quality permanent magnet speakers at very low prices. Actually cost less than the cost of a reconing job. Designed for universal replacement use—also recommended for installation in original equipment. Built to EIA standard dimensions—rugged construction throughout. Rigid frame assures permanent alignment of integral parts. Magnet and voice coil are precision centered. 4" and 5" speakers have four holes in pot for easy mounting; furnished with universal mounting bracket. Fully Dustrproof. Imp. 3.2 ohms except † 8 ohms. \*Extended range type for wider response.

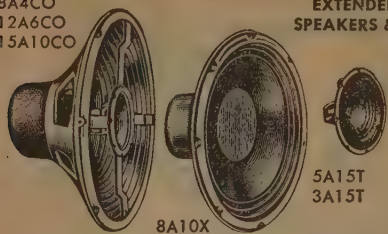
| Stock No. | Size  | Shape  | Mag. Wt. | Max. Watts | Wt., Lbs. | NET EACH |
|-----------|-------|--------|----------|------------|-----------|----------|
| 81 P 616  | 4"    | Square | .68 oz.  | 3.0        | 1½        | 1.15     |
| 81 P 617  | 5"    | Round  | .68 oz.  | 3.5        | 1½        | 1.37     |
| 81 P 536  | 5x7"  | Oval   | 1.0 oz.  | 5.0        | 1         | 1.82     |
| 81 P 534  | 6x9"  | Oval   | 1.47 oz. | 8.0        | 1½        | 2.43     |
| 82 P 250  | *6x9" | Oval   | 1.47 oz. | 8.0        | 1½        | 2.56     |
| 81 P 024  | †6x9" | Oval   | 1.47 oz. | 8.0        | 1½        | 2.63     |
| 81 P 508  | 8"    | Round  | 2.15 oz. | 10.0       | 2         | 2.47     |
| 81 PX 508 | 12"   | Round  | 3.16 oz. | 10.0       | 3½        | 4.42     |

# Quam and Jensen Speakers

## FAMOUS QUAM SPEAKERS FOR REPLACEMENT AND NEW EQUIPMENT USE

8A4CO  
12A6CO  
15A10CO

### EXTENDED RANGE SPEAKERS & TWEETERS



Economy  
Models for  
Home Hi-Fi  
Systems

5A15T  
3A15T

8A10X

MODEL 8A10X 8" SPEAKER. Extended-range speaker, ideal for remote speaker in home music systems. Frequency response is  $\pm 5$  db. 50, 12,000 cps. Power capacity, 10 watts. 1" voice coil diameter. 10-oz. Alnico V magnet. Impedance, 8 ohms. Wt.,  $3\frac{1}{4}$  lbs.

81 P 343. NET. 11.76

MODEL 3A15T  $3\frac{1}{2}$ " TWEETER. Response, 2000-12,000 cps,  $\pm 6$  db. Impedance, 14 ohms. 1.47-oz. Alnico V magnet. Power capacity, 10 watts.  $2\frac{1}{8}$ " deep;  $3\frac{1}{8}$ " mtg. ctrs. Shpg. wt.,  $\frac{3}{4}$  lbs.

81 P 341. NET. 3.38

MODEL 5A15T 5" TWEETER. Used in Model 15A10CO speaker (listed below). Frequency response, 2000-12,000 cps,  $\pm 6$  db. Voice coil impedance, 14 ohms. 10 watts power handling capacity. 1.47-oz. Alnico V magnet.  $2\frac{1}{8}$ " deep;  $4\frac{1}{8}$ " mtg. ctrs. Shpg. wt., 1 lb.

81 P 342. NET. 3.82

MODEL 8A4CO 8" COAXIAL SPEAKER. 8" cone has 4.64-oz. magnet.  $2\frac{1}{2}$ " tweeter with .65-oz. magnet. Rated at 10 watts. Range: 50-15,000 cycles,  $\pm 5$  db. Impedance, 8 ohms. Wt.,  $2\frac{3}{4}$  lbs.

81 P 038. NET. 13.49

MODEL 12A6CO 12" COAXIAL SPEAKER. 12" woofer has 6.8-oz. magnet.  $3\frac{1}{2}$ " tweeter with 1.47-oz. magnet. Power capacity, 14 watts. Response, 50 to 15,000 cps,  $\pm 5$  db. Imp., 8 ohms.  $6\frac{1}{2}$  lbs.

81 PX 318. No Money Down. NET. 20.29

MODEL 15A10CO 15" COAXIAL SPEAKER. 15" woofer has 10-oz. magnet; 5" tweeter with 1.47-oz. magnet. Power capacity, 20 watts. Response, 25-15,000 cps,  $\pm 5$  db. Imp., 8 ohms. Wt., 9 lbs.

81 PX 319. No Money Down. NET. 30.87

### REAR-DECK AUTO-RADIO SPEAKER KIT

MODEL AS-2. Deluxe kit with heavy-duty 6x9" "Adjust-A-Cone" speaker. Has 2.15-oz. Alnico V magnet and 1" voice coil. Provides exceptionally fine tonal quality. Kit is supplied complete with fader control, 18 feet of cable, flocked screen grille, baffle plate, sponge rubber gasket, mounting hardware and instructions. Shpg. wt.,  $3\frac{1}{2}$  lbs.

81 P 390. NET. 8.20

### JENSEN "CONCERT SERIES" SPEAKERS



Jensen's highly popular "Concert Series" PM speakers. DP-Alnico V magnets for exceptionally high efficiency and distinct reproduction. Cones are selected for maximum frequency response characteristics. Rigid frame maintains proper alignment of voice coil and magnet structure. All speakers listed below have 3.2-ohm voice coil impedance, except Type P275-V which is 16 ohms (for transistor radios).

| Stock No. | Mfr's Type | Size              | Shape  | Magnet   | Watts | Wt. Lbs.       | NET  |
|-----------|------------|-------------------|--------|----------|-------|----------------|------|
| 82 P 171  | P275-V     | $2\frac{1}{2}$ "  | Round  | 0.65 oz. | 0.15  | $\frac{1}{4}$  | 2.79 |
| 82 P 271  | P4-W       | 4"                | Square | 1.0 oz.  | 4.5   | $\frac{1}{2}$  | 2.56 |
| 82 P 272  | P5-W       | 5"                | Square | 1.0 oz.  | 5.0   | $\frac{1}{2}$  | 2.62 |
| 82 P 176  | P5-V       | 5"                | Square | 1.47 oz. | 5.5   | $\frac{1}{2}$  | 2.85 |
| 82 P 273  | P6-W       | 6"                | Square | 1.0 oz.  | 6.0   | 2              | 2.88 |
| 82 P 179  | P6-V       | 6"                | Square | 1.47 oz. | 6.5   | 2              | 3.20 |
| 82 P 181  | P6-T       | 6"                | Square | 3.16 oz. | 7.5   | 2              | 4.59 |
| 82 P 195  | P69-V      | 6x9"              | Oval   | 1.47 oz. | 7.5   | $2\frac{1}{2}$ | 4.26 |
| 82 P 183  | P8-U       | 8"                | Square | 1.73 oz. | 9.0   | $2\frac{1}{2}$ | 4.23 |
| 82 P 184  | P8-T       | 8"                | Square | 2.5 oz.  | 10.0  | $2\frac{1}{2}$ | 4.94 |
| 82 P 187  | P10-T      | 10"               | Round  | 2.5 oz.  | 11.0  | 5              | 6.32 |
| 82 PX 190 | P12-T      | 12"               | Round  | 2.5 oz.  | 12.0  | 5              | 6.76 |
| 82 P 270  | P314-T     | $14\frac{1}{2}$ " | Oval   | 3.16 oz. | 7.5   | 2              | 9.38 |

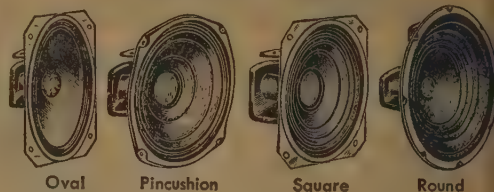
### G-C AUTO RADIO SPEAKER SELECTOR



TYPE 8891. Dash-mounted control that allows you to select front speaker, rear speaker or both simultaneously, while in driver's position. Exceptionally easy installation—unit is supplied complete with all mounting hardware, metal plate, and clearly written instructions. Shpg. wt., 3 oz.

83 P 053. NET. 66c

### ADJUST-A-CONE SPEAKERS



Oval

Pincushion

Square

Round

For radios, phonographs, TV sets, etc. All except 25A07, 3A07, 4A05 and 410A2 have "Adjust-A-Cone" which consists of a clamping ring securely fastening the spider to the basket by means of two machine screws rather than cementing. This assures precision centering of the voice coil. All  $3\frac{1}{2}$ " to 6x9" speakers, except 4A05, are supplied with universal mounting bracket. Magnets are Alnico-V. \*Indicates very shallow frame. Voice coil impedance, 3.2 ohms except 15speakers for transistor application; voice coil impedance indicated by digits following Z in Type number.

| Stock No. | Mfr's Type | Shape       | Size  | Max. Watts | Magnet Weight | Wt., Lbs. | NET EACH |
|-----------|------------|-------------|-------|------------|---------------|-----------|----------|
| 81 P 073  | 22A06Z     | Round†      | 2½"   | .25        | .45 oz.       | ¼         | 2.79     |
| 81 P 074  | 22A06Z100  | Round†      | 2½"   | .25        | .45 oz.       | ¼         | 3.09     |
| 81 P 066  | 25A07      | Square      | 2½"   | 2.0        | .65 oz.       | ¼         | 3.35     |
| 81 P 076  | 27A06Z12   | Square      | 2½"   | .25        | .55 oz.       | ¼         | 2.76     |
| 81 P 346  | 3A07       | Square*     | 3½"   | 2.5        | .65 oz.       | ¼         | 2.35     |
| 81 P 030  | 4A05       | Square      | 4"    | 2.5        | .55 oz.       | ¼         | 1.91     |
| 81 P 049  | 35A05      | Oval        | 3½"   | 2.0        | .55 oz.       | ½         | 2.47     |
| 81 P 320  | 4A07       | Square*     | 4"    | 3.0        | .65 oz.       | ¼         | 2.53     |
| 81 P 321  | 4A1        | Square      | 4"    | 3.0        | 1.0 oz.       | ¼         | 2.70     |
| 81 P 322  | 4A15       | Square      | 4"    | 3.0        | 1.47 oz.      | ¼         | 2.97     |
| 81 P 347  | 46A07      | Oval*       | 4x6"  | 3.5        | .65 oz.       | ¼         | 2.79     |
| 81 P 371  | 46A1       | Oval        | 4x6"  | 3.5        | 1.0 oz.       | 1         | 3.00     |
| 81 P 372  | 46A5       | Oval        | 4x6"  | 3.5        | 1.47 oz.      | 1         | 3.23     |
| 81 P 077  | 48A2       | Oval*       | 4x8"  | 4.5        | 1.4 oz.       | ¼         | 4.67     |
| 81 P 896  | 410A2      | Oval*       | 4x10" | 6.0        | 1.47 oz.      | 1½        | 5.26     |
| 81 P 323  | 5A07       | Pincushion* | 5"    | 3.5        | .65 oz.       | ¼         | 2.65     |
| 81 P 324  | 5A1        | Pincushion  | 5"    | 3.5        | 1.0 oz.       | 1         | 2.85     |
| 81 P 325  | 5A15       | Pincushion  | 5"    | 3.5        | 1.47 oz.      | 1         | 3.09     |
| 81 P 803  | 5ZA1       | Pincushion  | 5½"   | 4.0        | 1.0 oz.       | 1         | 2.91     |
| 81 P 317  | 5ZA21      | Pincushion  | 5½"   | 4.0        | 2.15 oz.      | 1½        | 3.56     |
| 81 P 348  | 57A1       | Oval        | 5x7"  | 5.0        | 1.0 oz.       | 1         | 3.38     |
| 81 P 334  | 57A15      | Oval        | 5x7"  | 5.0        | 1.47 oz.      | 1         | 3.59     |
| 81 P 339  | 57A21      | Oval        | 5x7"  | 5.0        | 2.15 oz.      | 1½        | 3.97     |
| 81 P 326  | 6A1        | Pincushion  | 6½"   | 5.0        | 1.0 oz.       | 1         | 3.42     |
| 81 P 327  | 6A15       | Pincushion  | 6½"   | 5.0        | 1.47 oz.      | 1         | 3.38     |
| 81 P 328  | 6A21       | Pincushion  | 6½"   | 5.0        | 2.15 oz.      | 1½        | 3.79     |
| 81 P 332  | 6A31       | Pincushion  | 6½"   | 6.0        | 3.16 oz.      | 1½        | 4.47     |
| 81 P 373  | 69A2       | Oval*       | 6x9"  | 8.0        | 1.4 oz.       | 1½        | 4.41     |
| 81 P 374  | 69A3       | Oval        | 6x9"  | 10.0       | 3.2 oz.       | 1½        | 5.41     |
| 81 P 078  | 69A1       | Oval*       | 6x9"  | 6.0        | 1.2 oz.       | 1½        | 3.76     |
| 81 P 387  | 7A31       | Pincushion  | 7"    | 9.0        | 3.16 oz.      | 2         | 5.14     |
| 81 P 329  | 8A21       | Pincushion  | 8"    | 7.0        | 2.15 oz.      | 1½        | 4.56     |
| 81 P 330  | 8A31       | Pincushion  | 8"    | 9.0        | 3.16 oz.      | 2½        | 5.29     |
| 81 P 388  | 10A31      | Round       | 10"   | 9.0        | 3.16 oz.      | 2½        | 6.76     |
| 81 P 804  | 10A4A      | Round       | 10"   | 10.0       | 4.64 oz.      | 3½        | 7.61     |
| 81 P 805  | 10A5A      | Round       | 10"   | 12.0       | 6.8 oz.       | 3½        | 8.53     |
| 81 PX 333 | 12A31      | Round       | 12"   | 10.0       | 3.16 oz.      | 3½        | 7.03     |
| 81 PX 806 | 12A4A      | Round       | 12"   | 12.0       | 4.64 oz.      | 4         | 8.38     |
| 81 PX 807 | 12A6A      | Round       | 12"   | 14.0       | 6.8 oz.       | 4½        | 9.38     |

### "HUMI-GARD" OUTDOOR SPEAKERS

Quam speakers with the exclusive "Humi-Gard" cone of plastic impregnated fiber fabric. Specially designed to outlast ordinary moisture-proofed cones. Voice coil impedance, 3.2 ohms. You can save by buying in large quantities. Write for quotations.

| Stock No. | Type  | Size             | Shape      | Watts | Magnet   | Lbs.           | NET  |
|-----------|-------|------------------|------------|-------|----------|----------------|------|
| 81 P 308  | 3A07T | $3\frac{1}{2}$ " | Square     | 2.5   | .65 oz.  | $\frac{1}{4}$  | 2.35 |
| 81 P 323  | 410T  | 4"               | Square     | 3     | 1.0 oz.  | $\frac{1}{4}$  | 2.73 |
| 81 P 306  | 5A15T | 5"               | Pincushion | 3.5   | 1.47 oz. | 1              | 3.15 |
| 82 P 260  | 6A15T | 6"               | Pincushion | 5     | 1.47 oz. | $1\frac{1}{4}$ | 3.53 |

### ELECTRO-DYNAMIC SPEAKERS

Field-coil type speakers for new equipment or replacement use. Voice coil impedance, 3.2 ohms. Wattage ratings are conservative. All have universal mounting brackets and heavy gauge metal baskets. Standard mounting centers. Have hum-bucking coil.

| Stock No. | Mfr's Type | Size             | Shape      | Field Ohms | Max. Watts | Wt. Lbs.       | NET EACH |
|-----------|------------|------------------|------------|------------|------------|----------------|----------|
| 81 P 350  | 4E45       | 4"               | Square     | 450†       | 3.0        | 1              | 3.67     |
| 81 P 352  | 4E45       | 5"               | Pincushion | 450†       | 3.5        | 1              | 3.82     |
| 81 P 353  | 5E10       | 5"               | Pincushion | 1000       | 3.5        | 1              | 3.82     |
| 81 P 357  | 6E10       | $6\frac{1}{2}$ " | Pincushion | 1000       | 5.0        | $1\frac{1}{2}$ | 4.41     |

### HIGH-IMPEDANCE INTERCOM SPEAKERS

PM speakers designed for replacement in intercommunications systems. Voice coil impedance is 45 ohms.

| Stock No. | Type    | Size             | Shape      | Magnet  | Shpg. Wt.         | NET  |
|-----------|---------|------------------|------------|---------|-------------------|------|
| 81 P 808  | 3A07Z45 | $3\frac{1}{2}$ " | Square     | .65 oz. | $\frac{1}{2}$ lb. | 2.50 |
| 81 P 809  | 4A1Z45  | 4"               | Square     | 1.0 oz. | $\frac{3}{4}$ lb. | 2.85 |
| 81 P 810  | 5A1Z45  | 5"               | Pincushion | 1.0 oz. | 1 lb.             | 3.00 |



# Garage Door Opener—Photoelectric Controls



**Perma-Power**

## ELECTRONIC GARAGE DOOR OPENER All-Transistor Remote Control

- Simple Push-Button Operation
- Handy Time-Delay Light Shutoff
- Fully Automatic Safety Devices
- Install Without Special Tools

NET  
**\$149.50**  
Money Down

At touch a button—your garage door opens and the light goes on! At push button again, or use the wall-mounted pushbutton, to close door lock the door securely—light remains on for several minutes after door is closed. Power shuts off automatically if obstruction blocks door of travel. Door can be operated manually.

Choice of two all-transistor transmitters—an extremely compact portable unit, or a small, under-the-dash transmitter with dashboard pushbutton. Portable transmitter is self-contained—carry it with you, use it in the glove compartment, or snap it onto the sun-visor. Dashboard-controlled unit operates on 12 v. DC. Transmitters are FCC-authorized frequency of 27.255 mc.

Simply installed system fits overhead, residential garage doors up to 16 ft. wide and 8 ft. high using a horizontal or curved roller track. Requires only 2 1/2" clearance between high-arc of door and ceiling. Opening mechanism and receiver operate from 110-120 v., 50-60 cycle AC. Includes motor mechanism, transmitter, receiver, antennas, manual pushbutton, wire, hardware, and instructions.

- 653 SYSTEM.** With portable transmitter. 65 lbs. \$2 991, List. \$224.95. NET. **149.50**
- 654 SYSTEM.** With under-dash transmitter. 65 lbs. \$2 993, List. \$224.95. NET. **149.50**
- S 291, Key Switch.** With 2 keys, Shpg. wt., 9 oz. NET. **4.20**

### PORTABLE TRANSISTOR UNITS

**340 EXTRA TRANSMITTER.** Permits operation of system from either car. With self-contained antenna and clip for mounting on sun-visor. Shpg. wt., 1 lb. \$X 995, List. \$27.95. NET. **19.50**

**653 ALTERNATE SYSTEM.** Same as G-653 system above, but operates on another channel. Use if a neighbor already has a radio-controlled opener. Shpg. wt., 65 lbs. \$2 992, List. \$224.95. NET. **149.50**

**340 ALTERNATE EXTRA TRANSMITTER.** Same as the G-340 above, but for use with the G-653 alternate system. 12 oz. \$X 996, List. \$27.95. NET. **19.50**



**Transistorized Control**

Choose either or both of two all-transistor transmitters. Under-the-dash unit features easy installation, dashboard pushbutton. Hand-held transmitter for 2-car families, fits pocket or purse, no installation.



Overhead light stays on several minutes after door locks.

1/4-hp. mechanism operates all residential overhead doors.

### WIRED-IN TRANSISTOR UNITS

**G-350 EXTRA TRANSMITTER.** Permits operation of door-opening system from a second car. Includes hardware, installation instructions. 77 Sx Shpg. wt., 3 lbs. \$77 SX 997, List. \$27.95. NET. **19.50**

**G-654 ALTERNATE SYSTEM.** Same as G-654 system above and left but operates on another channel. Use if neighbor has radio-controlled door opener. Shpg. wt., 65 lbs. \$77 SZ 994, List. \$224.95. NET. **149.50**

**G-350 ALTERNATE EXTRA TRANSMITTER.** Same as G-350 above, but for use with the G-654 alternate system. Wt., 7 lbs. \$77 SZ 998, List. \$27.95. NET. **19.50**

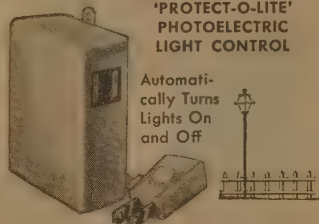
## PHOTOELECTRIC CONTROLS FOR HOME AND AUTO



Dims—Then Restores High Beam Promptly

### 'HI-WAY-I' HEADLIGHT DIMMER

Automatic headlight beam changer for automobiles. Eases the strain of night driving by automatically dimming headlights—even tuated by taillights of cars ahead as well as headlights of oncoming cars. Restores high beam within 1/2 second after lights are used—affording a new measure of visibility and safety. Promotes courteous response from other drivers. Unaffected by street lights. Can be overridden by foot switch whenever it is desired. Convenient control on rear of dash-mounted electronic unit lets you adjust sensitivity as desired. See instructions for quick, convenient installation. For use on all autos with standard 12 v. negative-grounded electrical systems. Shpg. wt., 3 lbs. \$77 P 365, List. \$77.40. NET. **39.95**



'PROTECT-O-LITE' PHOTOELECTRIC LIGHT CONTROL

Automatically Turns Lights On and Off

Silent, dependable photoelectric light control which automatically turns on lights at night and then turns them off at daybreak. Small, compact. Presents low-cost protection by discouraging burglars, prowlers, or vandals during your absence. Also helps prevent accidents caused by entering an unlighted home. Delayed action feature prevents car lights or flashlights from turning off lights at night. Quick and easy to install—just place it near a window facing outside natural light, plug unit into wall outlet, and plug lamp into unit. Handles loads up to 600 watts. Size, 3 1/2 x 2 1/2 x 1 1/2. For operation from 110-125 v., 50-60 cycle AC. Shpg. wt. 1 lb. \$77 P 364, NET. **7.99**



ANNOUNCER

Extra Chime

### WORNER 'FOTOLECTRIC' ANNOUNCER

**MODEL 61.** Chime announces people or vehicles when light beam is interrupted. Consists of "Fotolectric" unit, mirror and chime. Projects beam across passage and receives reflected beam from mirror; may be placed 3 to 10 feet from mirror. Easily installed. Size, 3 1/2 x 5 1/2 x 2 1/4". For 110-120 volts, 50-60 cycle AC. Shpg. wt., 8 lbs. \$77 P 028, NET. **39.69**

**REPLACEMENT BULB.** For use with Models 33, 61. Shpg. wt., 5 oz. \$77 P 023, NET. **.65¢**

**EXTRA CHIME.** 6-volt, for above, or any 6-volt AC source. Wt., 2 lbs. \$77 P 035, NET. **4.70**

# Selected Feature Values

## POPULAR KNIGHT-KIT CRYSTAL SET KIT

ONLY  
**\$295**

- Ultra-Sensitive Crystal Diode
- Smooth Ball-Bearing Tuning
- Loud, Amazingly Clear Reception
- Fun to Build—Fun to Use!
- Anyone Can Assemble it!

Thousands of beginners have started in electronics by building this famous, low-cost crystal set. Requires no electrical power—not even batteries—yet it delivers loud, clear reception of local broadcast stations. Circuit employs a fine-type germanium crystal detector. Crystal is pre-set and does not require adjustment as old-fashioned types do. A valuable educational experience, the kit provides high sensitivity combined with simplicity of operation. Easy to wind Hi-Q coil offers remarkable efficiency and excellent sensitivity. Ball-bearing equipped variable capacitor provides smooth tuning. Anyone can quickly and easily build this fascinating crystal set. Supplied with all parts, wire, solder and baseboard. Less headphone and antenna kit, below. Shpg. wt., 1 lb.

crystal detector. Crystal is pre-set and does not require adjustment as old-fashioned types do. A valuable educational experience, the kit provides high sensitivity combined with simplicity of operation. Easy to wind Hi-Q coil offers remarkable efficiency and excellent sensitivity. Ball-bearing equipped variable capacitor provides smooth tuning. Anyone can quickly and easily build this fascinating crystal set. Supplied with all parts, wire, solder and baseboard. Less headphone and antenna kit, below. Shpg. wt., 1 lb.

83 Y 261. NET.

59 Y 112, 1000-Ohm Headphone. Shpg. wt., 1 1/4 lbs. NET.

83 Y 100. Antenna Kit. Shpg. wt., 1 1/2 lbs. NET.

2.95

## PRECISION TUBE TESTER ADAPTER

ONLY  
**\$11.69**

- Modernizes Your Present Tester
- Tests Compactrons, Nuvistors, Novars, 10-Pin Miniatures

Model G-140. Now you can bring your present socket adapter unit. Simply plug the adapter cable into the 9-pin socket of your tester, connect the grid-cap lead, and you are instantly ready for testing 12-pin compactrons, 5 and 7-pin nuvistors, novars, and 10-pin miniatures. No complex switching is required for testing 12-pin compactrons on tube testers with less than 12 test circuits—a unique keying system allows complete tests by means of simple tube rotation. Add this super-economical unit to your tester now, so that you will be ready for all the new radio and TV receivers utilizing these latest tube designs. With complete instructions. Size, 5 1/2 x 1 1/2". Shpg. wt., 2 lbs.

87 F 585. NET.

11.69

## NEW B & K AUTOMATIC VTVM

ONLY  
**\$88.15**

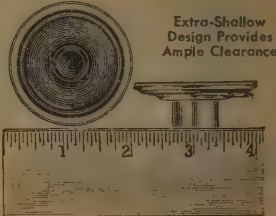
NO MONEY  
DOWN

500-1500; DC rms, 0.5-50-500; resistance, 0.500-5000-50,000-500,000 ohms, 0.5-50-1000 meg. Input, 11 meg on all DC ranges. Accuracy, ±3% of full scale AC and DC. Features: 100 µa meter movement, 1% multiplier resistors, anti-parallel mirrored scale, easy-to-read iridescent knife-edge pointer, single DC-AC-Chaus probe. Supplied complete with battery, probe, and stand which swivels to any desired viewing angle or swings up to form carry-handle. Size, 6 1/2 x 10 1/2 x 4 1/2". Shpg. wt., 9 lbs.

87 F 586. No Money Down. NET.

88.15

## NEW UTAH TRANSISTOR RADIO REPLACEMENT SPEAKERS



Extra-Shallow Design Provides Ample Clearance

- Steel Surfaces Are Cadmium-Plated
- All Parts Manufactured in U.S.
- Designed For Exact Replacement

Top-quality replacement speakers for use in transistorized radios. All steel surfaces are cadmium-plated for lasting performance. Special terminal strips are used on the water-thin baskets to maintain extra-shallow depth for plenty of clearance in crowded cases. In most instances, the original mounting hardware can be used. All have 12-ohm voice coil impedance, except SP25A is 3-4 ohms. Have .35-ounce magnets and .75-watt power handling capacity except "have .68-ounce magnets and .2-watt power capacity. Av. shpg. wt., 4 oz.

| Stock No.      | Mfr's Type | Size   | Total Dia. | Total Depth | Basket Depth | NET EACH |
|----------------|------------|--------|------------|-------------|--------------|----------|
| 82 P 816 SP2T  | 2" Rd.     | 2"     | 1 1/4"     | 1 1/2"      | 1 1/4"       | 2.44     |
| 82 P 817 SP2T  | 2 1/4" Rd. | 2 1/4" | 1 3/4"     | 1 1/2"      | 1 1/4"       | 2.44     |
| 82 P 818 SP25A | 2 1/4" Rd. | 2 1/4" | 1 3/4"     | 1 1/2"      | 1 1/4"       | 2.26     |
| 82 P 819 SP25T | 2 1/4" Rd. | 2 1/4" | 1 3/4"     | 1 1/2"      | 1 1/4"       | 2.44     |
| 82 P 820 SP27T | 2 1/4" Rd. | 2 1/4" | 1 3/4"     | 1 1/2"      | 1 1/4"       | 2.50     |
| 82 P 825 SP27A | 2 1/4" Rd. | 2 1/4" | 1 3/4"     | 1 1/2"      | 1 1/4"       | 2.53     |
| 82 P 826 SP3T  | 3" Rd.     | 3"     | 1 3/4"     | 1 1/2"      | 1 1/4"       | 2.59     |

## ROBINS MODEL HD-6 TAPE HEAD DEMAGNETIZER



NET

**\$7.35**

- Neutralizes Residual Magnetism
- Compact and Easy to Use
- U.I. Approved

Use this handy device with any tape recorder to improve signal-to-noise ratio and to lower harmonic distortion caused by residual head magnetization. Easy-to-use—just place flat surface of demagnetizer pole piece on coils of head and slowly remove. 4 1/2 x 8 1/2 x 1 1/4" dia. For operation from 110-120 volts, 60 cycle AC. Shpg. wt., 1 lb.

92 R 990. NET.

7.35

## NEW G-C TRANSISTOR RADIO TROUBLE-SHOOTER

ONLY  
**\$48.51**

All-in-1 Test Lab

Light, Compact

Model 36-568. Ideal for servicing transistor radios. Checks PNP, NPN and power transistors, diodes and rectifiers (semi-conductors)—tests for opens, shorts, leakage. I.e., plus Beta (current gain) in or out of circuit. Generates 400 cps tone and RF/IF frequencies. Has built-in power supply/battery eliminator; full-wave silicon rectifier permits continuous 100 ma drain, 300 ma on peaks. DC volt-milliammeter reads volts from 0.24 and ma from 0-100. Meter accuracy, ±3% accuracy. With leads and chart, listing over 1000 transistors. Metal case, 9 x 3 1/2 x 2 1/2". For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 6 lbs.

In or out of circuit. Generates 400 cps tone and RF/IF frequencies. Has built-in power supply/battery eliminator; full-wave silicon rectifier permits continuous 100 ma drain, 300 ma on peaks. DC volt-milliammeter reads volts from 0.24 and ma from 0-100. Meter accuracy, ±3% accuracy. With leads and chart, listing over 1000 transistors. Metal case, 9 x 3 1/2 x 2 1/2". For operation from 110-120 volts, 50-60 cycle AC. Shpg. wt., 6 lbs.

87 F 587. No Money Down. NET.

48.51

## NEW G-C TRANSISTORIZED SIGNAL GENERATOR

ONLY  
**\$9.75**

Generates AF, IF, RF  
Variable Output  
Battery-Powered



plus an RF/IF generator let you quickly isolate defects to a single stage. Incorporating all the benefits of transistorization, this unit measures only 5 1/2 x 1 1/2" and weighs just 1 lb.—you can easily carry it with you on all your service calls. No cords to bother with—no AC outlets to look for. Instant warmup too. Probe is extra-thin for those hard-to-get-at places. Two controls: Audio-RF/IF selector; On/Off/Volume. Negative lead has alligator clip. Rugged metal case has anti-scratch Scotch grain finish. Chrome carrying handle. Supplied with battery. Shpg. wt., 1 1/2 lbs.

87 F 588. NET.

9.75

## NEW ROBINS MAGNA-ERASER



NET

**\$14.85**

Fast, Easy Operation... Top-Quality

Model ME-77. A highly efficient, professional-quality bulk tape eraser at a very attractive price. An excellent unit for broadcast stations and professional recording studios as well as the home recordist. Erases an entire reel of tape at one time; accepts reel sizes up to 7". Reduces background noise levels of tapes from 2 to 4 decibels below that of normal erase head levels. An extremely important feature of the ME-77 is the special safety-lock switch that guards against accidental tape erasure; unit cannot be inadvertently left "on", either. In heavy bakelite housing. Size, 2 1/2 x 4 1/2 x 3 1/4". For 110-120 v., 50-60 cycle AC. Shpg. wt., 5 lbs.

90 R 993. NET.

14.85



# Selected Feature Values

## LATEST CITIZENS BAND ANTENNAS BY ANTENNA SPECIALISTS

### 1-67 ROOFTOP ANTENNA

NET  
\$15.37



- Uniform Radiation
- Neat Appearance
- Compact and Water-Proof

1-67 complete rooftop antenna for 27-mc Citizens Band. Compact, neat and water-proof, the M-67 is 14" x 4" overall. Mounting on roof offers favorable comparison with ig whips, and provides a uniform radiation pattern for excellent range all directions. Stainless steel whip tapered, 100" to 0.49", 4 1/2" load; coil; 50-ohm match; maximum range exceeds 100 watts. Mounts in hole. 12-ft. RG-58 U cable with -259 connector. Shpg. wt., 1 1/2 lbs. SX 142. NET

15.37

### M-71 MARINE ANTENNA

\$33.37

Fully corrosion-resistant



1-71 complete marine antenna system the 27-mc Citizens Band. Includes support tube, universal and down mount, and transmission line—requires no other components. Lightweight and ruggedly constructed, the antenna is made of non-corrosion-resistant materials—anodized aluminum, chrome-plated steel and stainless steel. Flexible 42" dip section will bend without damage. Overall length is 107" (including nut), which can be reduced to 71" necessary, without impairing performance. Antenna mounts on any face, horizontal, vertical, or sloping, can be set sloping or horizontal in any one desired direction. Transmission line, supplied with the antenna is 15 ft. of RG-58 U cable, nplc with a PL-259 connector. pg. wt., 5 1/2 lbs. SX 148. NET

33.37

### SPEAKER GRILLE CLOTH AND SCREENING

1-67 antipattern in high-quality, durable cloth. Perfect for modernizing old cabinets and for construction of new custom enclosures. Specially designed for acoustic use.

| Size  | Mahogany | Ivory    | Shpg. Wt. | NET  |
|-------|----------|----------|-----------|------|
| 2x12" | 43 N 605 | 43 N 608 | 2 oz.     | .47  |
| 3x24" | 43 N 606 | 43 N 609 | 4 oz.     | .80  |
| 3x36" | 43 N 607 | 43 N 610 | 6 oz.     | 3.70 |

1-C Fabric Cement. For grille cloth. 2-oz. bottle. Shpg. wt., 8 oz. SX 123. NET

1-67 Mesh Coated Wire Grille Screening. Soft, brown color. SX N 060, 8x11". Shpg. wt., 4 oz. NET

1-NX 061, 18x24". Shpg. wt., 12 oz. NET

### ALLIED SPEAKER REPAIR SERVICE

1-67 Hi-Fi Speaker Service. Includes replacing cone, gasket, voice coil, spider and dust cover. Pack speaker carefully and ship to us by insured mail post or express. Allow 30 days for return delivery. \$7.50

1-67 Hi-Fi Speaker. Repair Service. \$11.25

1-67 Hi-Fi Speaker. Repair Service. \$15.00

1-67 Standard Speaker Service. Covers rebuilding general purpose radio, 7 and phonograph speakers. Additional charges for field coil repair or replacement are as follows: \$1.25 for 4" to 9"; \$2.25 for 10" to 12". For all other speaker frames cannot be replaced. Ship speaker to us prepaid and send remittance (including postage) with order. Allow 30 days for return delivery of repaired speaker.

| Size         | Service | Size       | Service | Size             | Service |
|--------------|---------|------------|---------|------------------|---------|
| 4" to 6"     | 1.75    | 14" to 15" | 3.85    | 5 1/2" x 9" oval | 2.55    |
| 7 1/2" to 9" | 2.55    | 16" to 18" | 2.00    | 6" x 9" oval     | 2.75    |
| 10"          | 2.95    | 11" to 12" | 3.25    |                  |         |

## NEW FINCO T-AMB TV-FM BOOSTER/COUPLER

- High Gain—Low Noise
- Fully Transistorized
- Use With up to 4 TV or FM Sets

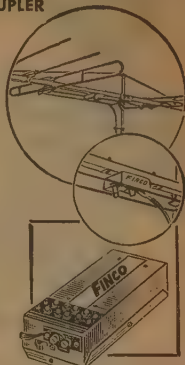
ONLY  
\$19.00

Here's a low-cost, top-performance TV/FM booster-coupler. Perfect for bringing in stations you've hardly been able to receive—provides greatly improved reception in fringe areas and weak-signal locations, and permits signal distribution to up to four TV sets or FM receivers. Fully transistorized for low-noise, maintenance-free operation.

Booster-coupler mounts on the antenna; power supply is remote, and uses four flashlight batteries—no AC power is necessary. Gain with one FM set is 12 db at 108 mc, and 15 db at 88 mc. Gain with one TV set is 8.5 db on channels 7 through 13, 15 db on channel 6, and 17 db on channel 2.

Booster/coupler matches 300-ohm impedance of antenna and set. Both booster/coupler and remote power supply have strip-less 300-ohm terminals. Unit mounts directly on boom of Finney B-6, B-7 and B-8, and Knight, antennas, or on the mast of other antennas. Less batteries (below). Size; power supply, 1 1/4x3 1/4"; booster/coupler, 1 1/2x2 1/4x3 1/2". 1 lbs. 73 C 779. List, \$29.95. NET

53 J 009, Battery. For above (4 required). 5 oz. NET. 14c



## NEW BLONDER-TONGUE "PACEMAKER" TV-FM AMPLIFIER

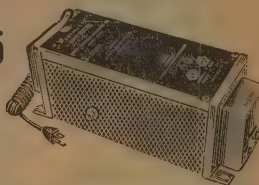
- Full 35 Db Minimum Signal Gain
- Low Noise—Minus 6 Db or Better
- Inputs for Separate Antennas

NET  
\$59.95

Superior-quality broadband amplifier for use with TV and FM sets brings very weak signals up to full reception level. Minimum gain is a full 35 db for TV channels 2 through 13, and 30 db on FM. Separate inputs for the high band, and for FM and the low band; jumper is provided for combined high-low FM input.

Tubes and components are conservatively operated for long, trouble-free use. Noise is better than 10 db down for low-band FM, and 7 db down for the high band. Output is 2 volts (total of all carriers) on low-band FM; 2 volts on high band. Amplifier is well-ventilated, completely covered and tamper-proof. Coax input and output. Size, 4 1/4x1 1/4x4". For 115-120 volts, 60 cycle AC. Wt., 5 lbs.

73 C 778. List, \$99.50. NET



59.95

## NEW ALL-CHANNEL "REMBRANDT" INDOOR TV ANTENNA

- UHF Receptor Employs Radar-Coil Design
- Switch Has 12 Active Positions
- All-Brass Arms Extend to 46"

ONLY  
\$6.95

Use the top-performance "Rembrandt" radar-coil indoor antenna for superior sound and picture quality. Designed for UHF and VHF, black and white or color; styled to complement any decor. Has extra-long, four-section, telescoping arms—extend to a full 46". Selector switch has twelve active positions—permits adjustment for optimum reception on each channel, and for each antenna position, 6-foot line, with soldered lugs. Choice of three colors. Shpg. wt., 2 1/2 lbs.

73 CX 775, Mahogany. 73 CX 777, Walnut.

73 CX 776, Ivory.

NET EACH

6.95



## PHILMORE CRYSTAL SET ACCESSORIES

Complete selection of accessories for crystal-set construction. Crystal detectors, cat-whiskers and mounting kits—all carefully made for excellent performance in your crystal set.



A Cat Whiskers. Set of two high-quality cat whiskers for use in crystal sets. Precision made from top-grade tested spring steel. Provide precision for your crystal set. Shpg. wt., 3 oz. 52 S 011. NET

B Detector Mount Kit. Crystal holder, cat-whisker and hardware. Less crystal. Uses 52 S 005 or 52 S 006 (below). 3 oz. 52 S 003. NET EACH

C Detector Mount Kit on Base. As above, but on fiberboard base. With Fahnestock clips. Shpg. wt., 5 oz. 52 S 004. NET EACH

D Fixed Detector. Permanently adjusted, sensitive, meter-tested crystals. In bakelite case. Shpg. wt., 3 oz. 52 S 001. NET EACH

E Meter-Tested Crystal. (Not illustrated.) Laboratory tested and selected to assure excellent performance. Shpg. wt., 3 oz. 52 S 006. NET EACH

F Mounted Economy Crystal. A highly sensitive, general-purpose crystal for dependable performance and sensitive reception in crystal receivers of all types. Genuine Galena crystal—securely mounted in lead housing. Shpg. wt., 2 oz. 52 S 005. NET EACH

7c

Your Satisfaction Is Guaranteed When You Buy at Allied

383



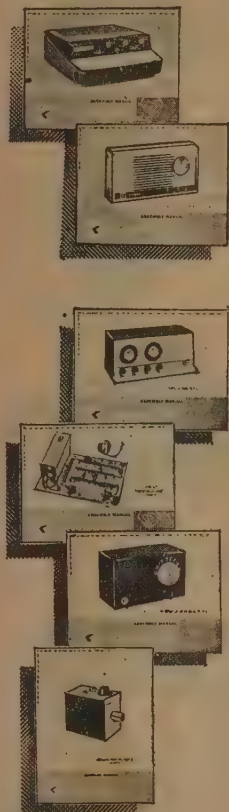
# SEE THE ACTUAL PROOF OF **knight-kit** SUPERIORITY

## EXAMINE OUR COMPLETE INSTRUCTION MANUALS

check the design and quality for yourself

These easy-to-follow manuals are the same as those supplied with all Knight-

Kits. For an inexpensive preview of these fine kits, read one—then judge for yourself!



- 37 K 292. Model KM-15 12-Watt Hi-Fi Amplifier.
- 38 K 188. In-Circuit Capacitor Checker.
- 38 K 184. Resistance-Capacitance Checker.
- 38 K 148. Capacitance Substitution Box.
- 38 K 147. Resistance Substitution Box.
- 38 K 928. Flyback and Yoke Checker.
- 38 K 166. RF Signal Generator.
- 38 K 099. Scope Voltage Calibrator.
- 37 K 294. Economy "400" Tube Tester.
- 38 K 199. Transistor and Diode Checker.
- 38 K 183. VOM; 1,000 ohms-per-volt.
- 38 K 884. Pocket-Size VOM.
- 38 K 050. Crystal Set.
- 38 K 936. 2-Transistor Pocket Radio.
- 38 K 161. "Ocean Hopper" Receiver.
- 38 K 298. 4-Band "Span Master" Receiver.
- 38 K 187. 2-Band "Space Spanner" Receiver.
- 37 K 290. "Ranger III" Table Radio.
- 37 K 293. "Ranger" Clock Radio.
- 37 K 291. Printed Circuit "Ranger III" Radio.
- 37 K 299. "Ranger" Radio Intercom.
- 38 K 197. 2-Station Intercom.
- 38 K 297. Radio-Broadcaster/Amplifier.
- 38 K 934. Photoelectronic Relay.
- 38 K 935. Light Source.
- 38 K 853. Ammeter-Voltmeter for Cars and Boats.
- 37 K 289. 12-in-1 Electronic Lab.
- 38 K 295. 10-Circuit Transistor Lab.
- 38 K 296. 100-ke Crystal Calibrator.
- 38 K 198. Model Z-52 Impedance and SWR Bridge.
- 38 K 146. Transistor Code Practice Oscillator.
- 39 K 282. Power Supply for C-11 Transceiver.
- 39 K 093. Power Supply for C-27 Transceiver.
- 38 K 299. Model KM-20 18-Watt Hi-Fi Amplifier.
- 38 K 883. Model KA-25 20-Watt Stereo Amplifier.
- 39 K 161. Model KB-30 35-Watt Basic Hi-Fi Amp.
- 37 K 295. Model KP-50 Hi-Fi Stereo Preamplifier.
- 38 K 126. Model KP-35 Hi-Fi FM Tuner.
- 38 K 941. Model KP-65 Hi-Fi FM Tuner.
- 38 K 895. 5-Transistor Portable Radio.
- 38 K 169. Audio Generator.
- 38 K 196. TV-FM Sweep Generator.
- 38 K 167. 5" Wide-Band Oscilloscope.
- 39 K 154. Deluxe "600-A" Tube Tester.
- 38 K 170. High-Gain Signal Tracer.
- 38 K 168. VOM; 20,000 ohms-per-volt.
- 38 K 185. Vacuum-tube Voltmeter.

- 38 K 098. 6-12 Volt Battery Eliminator.
- 39 K 165. New Model T-60 60-Watt AM-CW Amateur Transmitter.
- 38 K 180. Model V-44 Amateur Variable Frequency Oscillator.
- 38 K 852. Model G-30 Grid Dip Meter.
- 38 K 186. Model C-11 Citizens Band Transceiver.
- 39 K 175. High-Gain Preamp for DC Lab Scope.
- 39 K 176. Wide Band Preamp for 5" DC Lab Scope.
- 39 K 177. Dual Trace Preamp for 5" DC Lab Scope.
- 39 K 153. 2-Band 3-Transistor "DX'er".
- 39 K 152. Transistorized Electronic Tachometer.
- 39 K 151. Vacuum Tube Wireless Intercom.
- 39 K 167. New Transistor Wireless Intercom.
- 39 K 168. New 100-watt Electronic Lab Kit.
- 39 K 171. New Model KS-11 Inboard Stereo Multiplex Adapter.
- 39 K 172. New Model KS-10 Multiplex Adapter.

ANY MANUAL ABOVE. Postpaid in U.S.A. EACH.....15c

- 39 K 283. Model KA-40 32-Watt Stereo Amplifier.
- 37 K 390. Model KA-55 40-Watt Stereo Amplifier.
- 39 K 162. New Model KB-85 70-Watt Basic Stereo Hi-Fi Amplifier.
- 39 K 163. Model KP-70 Stereo Record-Playback Preamplifier.
- 39 K 284. Model R-55 All-Wave Superhet Receiver.
- 38 K 944. Model R-100 Communications Receiver.
- 38 K 045. Model C-27 Citizens Band Transceiver.
- 37 K 394. Automatic AC VTVM.
- 39 K 150. Manual AC VTVM.
- 39 K 173. New Model KF-90 Deluxe FM-AM Stereo Multiplex Tuner.
- 39 K 174. New Model KF-75 Deluxe FM Multiplex Tuner.
- 39 K 169. New Model KY-60 50-Watt Transistor Stereo Amplifier.
- 39 K 170. New Model KU-45 AM-FM Stereo Receiver.

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- 39 K 286. Model KA-95 70-Watt Stereo Amplifier.
- 39 K 178. 5" DC Laboratory Oscilloscope.
- 39 K 166. New Mutual Conductance Tube Tester.

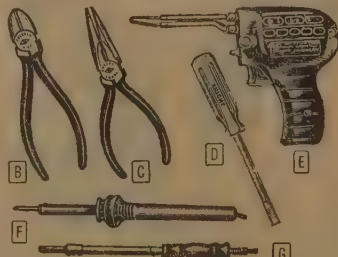
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## Tools for the Kit-BUILDER



**A** TOOL CHEST KIT—INCLUDING SOLDER GUN. 6-piece tool set. Includes these most-often-used tools: Wen Model 199—130-watt solder gun; Knight 6" long-nose side-cutting pliers; Knight 5" diagonal cutters; Knight 6" screwdriver; Knight 4" narrow-blade screwdriver; metal chest. Wt., 9 lbs. 50 N 592. ONLY.....9.95



**A** TOOL CHEST KIT—INCLUDING SOLDER IRON. As above, but with the Wall 11T 40-125 watt pencil-type iron. Wt., 8½ lbs. 50 N 277. ONLY.....9.95

**E** WEN MODEL 199 SOLDER GUN. Instant heat, 130-watt gun. Shpg. wt., 2¼ lbs. 46 N 358. NET.....5.83

**C** KNIGHT 6" PLIERS. Long-nose, side-cutting pliers. 10 oz. 50 N 132. NET.....2.10

**B** KNIGHT 5" DIAGONAL CUTTERS. High-quality carbon steel. Shpg. wt., 10 oz. 50 N 133. NET.....1.84

**F** WALL MODEL 14T SOLDER IRON. Pencil-type; for close work on printed circuit boards. Thermo-static action—heating range from 40 to 125 watts. Wt. 7 oz. 46 N 852. NET.....5.78

**G** SHOPMATE MODEL 315 SOLDER IRON. Lightweight, 60-watt soldering iron for general use. ¾" pyramid tip. Wt., 12 oz. 46 N 521. NET.....1.87

**D** KNIGHT 6" SCREWDRIVER. Chrome-vanadium steel. Overall length, 9¾". Shpg. wt., 4 oz. 45 N 378. NET......68c



# ALLIED 'Get Acquainted' BONUS BUYS!

## SPECIAL VALUES FOR NEW CUSTOMERS

As our way of saying *Welcome!*, we're offering you his sensational set of Allied BONUS BUYS. Choose from the amazing values in this folder—in addition to the thousands of money-saving items you'll see in your Allied Catalog. It's a terrific opportunity.

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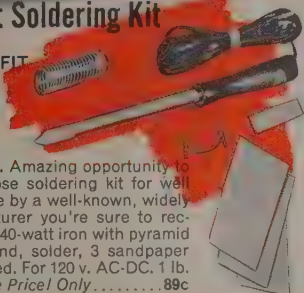
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### 40-Watt Soldering Kit

COMPLETE OUTFIT

ONLY **\$89c**

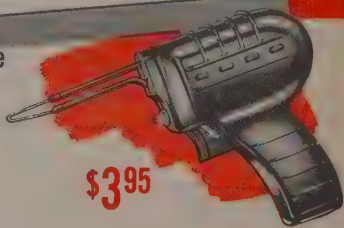
REGULARLY \$1.20. Amazing opportunity to get a general-purpose soldering kit for well below a dollar! Made by a well-known, widely respected manufacturer you're sure to recognize, kit includes: 40-watt iron with pyramid  $\frac{1}{8}$ " tip; scraper, stand, solder, 3 sandpaper sheets. U.L. Approved. For 120 v. AC-DC. 1 lb. 50 N 699. *Unbeatable Price!* Only .....89c



### Famous-Name Soldering Gun Value

- Trigger Switch
- Balanced Grip
- Extra-Long Tip

**\$3.95**



REGULARLY \$4.76. A fantastically low price on a quick-heating, 100-watt solder gun. Reaches operating temperature in only  $2\frac{1}{2}$  seconds! Includes a built-in spotlight. Extra-long tip allows use even in those hard-to-reach places. Length with tip, 8". For 110-120 v., 50-60 cycle AC. Shpg. wt., 2 lbs. 50 N 742. *List, \$5.95. A Bargain at Only* .....\$3.95

### Thor-Speedway $\frac{1}{4}$ " Drill

ONLY **\$7.95**

REGULARLY \$9.94. This rugged, industrially-rated drill handles the toughest jobs with ease. Powerful  $2\frac{1}{2}$ -amp motor with precision oilite bearings; heat-treated steel-gear chuck and key; and 6-ft., 3-wire safety cord and plug plus 2-conductor adapter plug. U.L. Approved. For 110-120 volts AC. Shpg. wt., 4 lbs. 50 N 530. *A Real Buy!* Only .....\$7.95



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Combines Utility with Beauty

An outstanding value at this fantastically low price! Handsome, non-tippable desk lamp with 12" adjustable gooseneck and felt-protected base. Shade is sprayed with corrosion-resisting aluminum. For optimum light reflection, heat-vented on inside. Bronze finish. 6-foot cord. Less bulb. 2 lbs.

78 N 066. *Only* .....\$1.99

78 N 067. Identical to above, but sand finish. *Only* .....\$1.99

ONLY **\$1.99**

Choice of Bronze or Sand



### Enamel Paint Sprays

ONLY **99c** EACH

REGULARLY \$1.17 EACH. Save on these popular enamel sprays. You're sure to recognize the manufacturer as one of the most famous in the field. Have non-clogging spray valve. 16-oz. cans. Available in five popular colors. Get two or three of each at this low price. Shpg. wt.,  $1\frac{1}{2}$  lbs.

- 2 N 744. Glossy White
- 2 N 745. Bright Silver
- 2 N 746. Flat Black
- 2 N 747. Machine Gray
- 2 N 748. Cherry Red

Each, **99c**  
Only



### 24-Drawer All-Steel Parts Cabinet

ONLY **\$3.79** SAVE **28%**

REGULARLY \$5.33. Just the thing for storing dozens of small parts, hardware, etc. Solid, welded steel construction, with 24 transparent plastic drawers. Each drawer is  $1\frac{1}{4}$ " high,  $2\frac{3}{4}$ " wide,  $5\frac{1}{2}$ " deep, and includes a divider plus handy index. Overall size of cabinet, 9x13x6". Shpg. wt., 10 lbs. 88 NX 042. *Unmatched Value!* Only .....\$3.79



# ALLIED EXCLUSIVE!

## Superb 12" 3-Way Hi-Fi Speaker

ONLY

**\$34<sup>95</sup>**

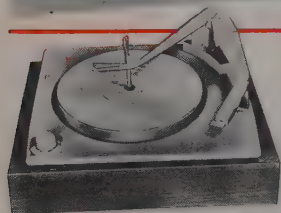
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REG. \$39.95

Made to Allied's Own  
Rigid Specifications

by **Electro-Voice**

COMPARES TO SPEAKERS SELLING FOR \$60.00.

This superb 3-way speaker provides splendid high-fidelity sound in any type of enclosure. Combines a 12" woofer cone with concentrically mounted, Radax-type mid-range cone and high-frequency tweeter. Delivers authentic bass response, full-bodied mid-range and transparently clean highs. Special ceramic magnet weighs a full 1½ lbs. for most efficient low-frequency reproduction. Response, 35-18,000 cps. Mechanical cross-over at 2000 cps; electrical crossover at 3500 cps. Has level control for adjusting highs. Capacity, 20 watts. 16 ohms. Depth, 6½". Shpg. wt., 15 lbs. **\$34.95**  
21 DU 502. An Unbeatable Value! Only



## GLASER-STEERS 4-Speed Changer

**\$24<sup>95</sup>**

NO MONEY DOWN

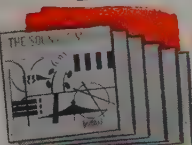
Crystal stereo cartridge; diamond-sapphire needles; automatic shut-off. Arm may be relocated during play. 2-pole motor. 13½"x12"; 3" below, 5½" above mtg. board. Less base, spindle. 105-130 v., 60-cycle AC. 13 lbs.

21 RX 504. Reg. \$29.95. Only **\$24.95**  
21 RX 505C. Base, Mahog., Lined Oak or Walnut. 4 lbs. **\$3.95**  
21 RX 506. Mounting Board. 1½ lbs. Only **\$1.50**  
21 R 507. 45-Rpm Spindle. Shpg. wt., 1 lb. Only **\$2.95**

## Exclusive Stereo Record Offer!

By **LINCOLN**  
SET OF 6 RECORDS

**\$5<sup>88</sup>** SAVE \$3.00



REGULARLY \$8.88. South Pacific, John Rapp Orchestra and Vocalists; My Fair Lady, John Rapp Orchestra and Vocalists; The Sound of Music, Martin Young Orchestra and Vocalists; Harmonica Percussion, Harvey Marks and Lawrence Stuart Orchestra; Easy Listening, London Strings; Pervasive Percussion, Bob Freedman. 3 lbs.  
21 RX 501. Set of 6 Records. Only **\$5.88**

## Special Money-Saving



**SAVE \$10.00**

## L-24 LINCOLN Stereo Amplifier

ONLY

**\$44<sup>95</sup>**

NO MONEY DOWN

REGULARLY \$54.95. Thrilling performance at remarkably low cost. 24-watt stereo amplifier with separate bass and treble controls for each channel; inputs for every type of cartridge; handy balance control; and powerful push-pull output. Size, 4½"x13"x9". With case. For 110-120 v., 60 cycle AC. Shpg. wt., 21 lbs. 21 DU 503. Fabulous Hi-Fi Buy! Only **\$44.95**

## DUOTONE Stereo Cartridge Buy



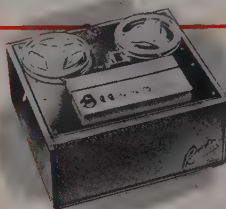
GPS-73-SD

ONLY

**\$4<sup>41</sup>**

SAVE \$10.00

REGULARLY \$14.41. This British-made crystal stereo cartridge fits any conventional phonograph or changer arm. Has .0007" diamond stylus for LP's and .003" sapphire stylus for 78's. 40-15,000 cps. Fine for economy music systems. 3 oz. 21 RC 509. Over 65% Off! Only **\$4.41**



## RECORDIO Model 210 Low-Cost Tape Recorder

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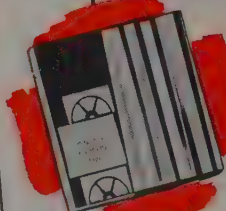
**\$49<sup>95</sup>**

NO MONEY DOWN

REGULARLY \$59.95. Loads of fun at low cost. Plays and records 2-track monophonic tapes at two speeds (3½ and 7½ ips); has big 4" PM speaker plus output for earphone monitoring or external speaker. Automatically silences internal speaker when auxiliary speaker is used. With mike and empty reel. 8½"x13½"x12½". For 110-120 v., 60 cycle AC. Shpg. wt., 24 lbs.

21 RU 503. Dozens of Enjoyable Uses! Only **\$49.95**

## Special Purchase Tape Offer



1200-FT. 7" REEL

ONLY

**98<sup>c</sup>**

- 1½-Mil Acetate Base
- Up to 2 Hours on a Reel at 3½ inches-per-second

REGULARLY \$1.29 PER REEL. Here's a fantastic value that any tape recordist just can't afford to pass up! A product of a major manufacturer, this *splice-free* tape is uniformly sensitive and gives full-range frequency response. Fine for voice and music recording, speech practice, correspondence, etc. You can't find a better value in recording tape anywhere—every reel is fully guaranteed by Allied. Shpg. wt., 1 lb.  
21 R 508. In Any Quantity. Per Reel, Only **\$1.29**



# "Get Acquainted" Offers

## Fast-Talk' 2-Station Intercom Set

**\$11.95** SAVE  
PER SET **\$1.93**

REGULARLY \$13.88. Each has 1" PM speaker for superior tone; sturdy, molded bakelite cabinet. Master has volume and on/off control plus press-to-talk switch. With 50-ft. of cable. 5¼x5½x3½". For 110-120 v., 50-60 cycle AC-DC. Wt., 5 lbs.  
1 RX 500. 2-Station System. Only . . . . . 11.95

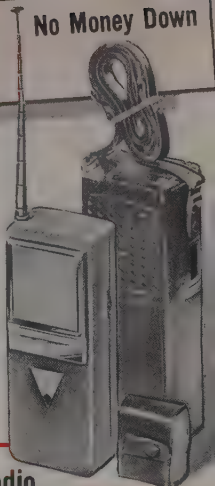


## NEW! FANTASTIC LOW PRICE

### 9-Transistor, 2-Way Superhet "Walkie-Talkie"

EACH  
**\$34.95** **\$59.00**  
PER PAIR

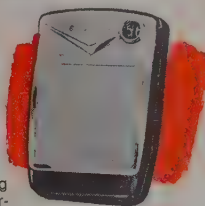
On-the-go communications! No license needed. With antenna, carrying case, earpiece, 1-mile range. Less batteries. 1½ lbs.  
21 SC 513. Each, Only . . . . . \$34.95  
Station Outfit, Only . . . . . \$59.00  
J 514. Burgess "Z" Batteries. Requires 7.3 oz. Each . . . . . 10c



No Money Down

## 6-Transistor Pocket Radio

ONLY **\$10.95**



Keep up with news, sporting events, weather reports—wherever you go. Latest circuit has 6 transistors, 1 diode and 1 thermistor. 2¼" speaker for crisp sound; easy-reading "optical-glass" tuning dial; thumbwheel controls for Off-On/Volume and Tuning; fold-out easel stand. With leather carrying case, battery and earphone. 4½x2½x1½". 1½ lbs.  
21 V 512. A Miniature Marvell Only . . . . . \$10.95  
21 J 515. Extra Standard Battery. Shpg. wt., 2 oz. Only . . . . . 39c

## 2-Transistor Pocket Radio NEVER-BEFORE LOW PRICE

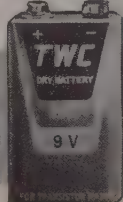
ONLY **\$4.95**



Gives you clear reception of local stations. Weighs just 7 ounces. Comes with two antennas—ferrite loop and telescoping whip that screws into case. Built-in speaker. With earphone, battery and plastic carrying case. 12 oz.  
21 V 510. Unbeatable Price! Only . . \$4.95  
21 J 515. Extra Standard Battery. Shpg. wt., 2 oz. Only . . . . . 39c

## 9-Volt Transistor Radio Battery

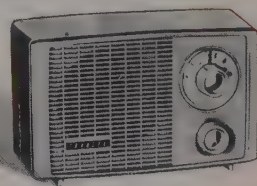
ONLY **39c** EA. 3 FOR **\$1.00**



stock up on these batteries for your own transistor portable at this phenomenal low price. Fits a majority of transistor radios. Replaces Burgess 2U6; RCA VS-323; Verady 216; Zenith Z216; Neda and R-O-V 604; and many others. Guaranteed fresh! Shpg. wt., 2 oz.  
J 515. 3 For \$1.00. Each, Only . . . . . 39c

## Table Model AM Radio

ONLY **\$7.95**



REGULARLY \$8.88. Super-value AM table model for kitchen, bedroom, etc. "Easy-tune" station selector; built-in antenna. White cabinet. 4¾x7¼x3¾". For 110-120 v., AC-DC. 5 lbs.  
21 V 511. Only . . . . . \$7.95

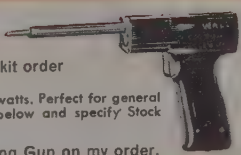
Attractively Styled in White

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Send in Coupon with Your Knight-Kit Order . . . Entitles You  
to BIG BONUS SAVINGS on Either of These Fine Kit-Building Tools

### WALL Soldering Gun

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REGULAR \$5.51 VALUE! Rated 75-150 watts. Perfect for general soldering applications. Just check box below and specify Stock No. 83 Y 639 on your order blank.

Include BONUS BUY Wall Soldering Gun on my order.

### WALL Soldering Iron

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REGULAR \$1.98 VALUE! Full 8" length, pencil-type iron. Lightweight and easy-to-handle. Just check box below and specify Stock No. 83 Y 638 on your order blank.

Include BONUS BUY Wall Soldering Iron on my order

"Let's Get Acquainted"

**"BONUS BUYS" from ALLIED**

## Tube-Saving TV "LIFE-SAVER"

ONLY **\$179**



- For Any Device with Tubes
- Simple, Plug-in Connection

REGULARLY SELLS FOR \$2.91. Add life to your TV, hi-fi amplifier, radio, etc.—any device that uses tubes. Cushions initial voltage surge, the primary cause of equipment failures. Plug equipment into "Life-Saver"; plug into wall outlet. 2 $\frac{1}{2}$ "x2 $\frac{1}{2}$ "x2 $\frac{1}{2}$ ". 4 oz. 82 C 797. Only . . . . . \$1.79

## Conical VHF TV Antenna

ONLY **\$199**

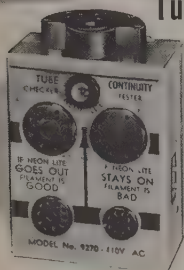


For up to 35 miles

REGULARLY \$2.66. One of the most popular antenna types in the history of TV! Specially reduced for this "get acquainted" offer. Exceptionally simple to install—just swing the elements into place, then tighten. Efficient reception on all VHF channels, and by stacking two, you get reception up to 75 miles! Less mast and 300-ohm line. 3 lbs. 91 CX 321. Top Reception! Only . . . . . \$1.99

## Tube Filament-Checker Buy

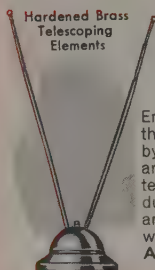
ONLY **\$150** WITH NEON INDICATOR



WAS \$2.49. Just plug power cord of radio, TV, etc. into checker, and plug tube into socket. If neon lamp goes out, tube is good. Includes sockets for picture tubes, octal, locat and 7 and 9-pin miniatures. 7x5x1 $\frac{1}{2}$ ". For 110-120 v., AC-DC. 1 lb. A87 F 204. Top Buy! Only . . . . . \$1.50

## Indoor TV Antenna

ONLY **75c**



Employing time-proven "rabbit ear" design, this quality indoor antenna can be installed by anyone in seconds. Since indoor antennas are frequently subjected to much use, the telescoping elements are made of a hard, durable aluminum. Makes an excellent FM antenna, too. Has felt-padded base. Supplied with 3 feet of twin line. Shpg. wt., 2 lbs. A91 CX 338. Small Price—Big Value! Only 75c

## 8" Speaker Buy

ONLY **\$349**

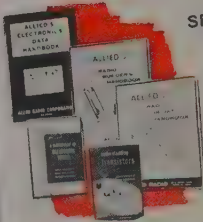


With 6.8-oz. Magnet!

Top-quality 8" speaker with heavy 6.8-oz. magnet at a fraction of the price you'd expect to pay. Low-cost extension speaker; perfect for replacement use in radios, TV sets, phonos, etc.—upgrades the quality of any set. Has 3.2-ohm voice coil; 14-watt power-handling capacity. Fits any standard 8" speaker cut-out. Shpg. wt., 3 lbs. 39 A 313. Only . . . . . \$3.49

## Complete Set of ALLIED Publications

SET OF 5 BOOKS **\$100**



\$1.55 WHEN PURCHASED SEPARATELY. Includes: Electronics Data Handbook; Dictionary of Electronic Terms; Radio Circuit Handbook; Radio Builder's Handbook; and Understanding Transistors. Post-paid in U.S.A. 39 K 342. Save 35%! Only . . . \$1.00

## ALLIED Headphones Bargain

ONLY **\$149**



With Adjustable Double Headband

REGULARLY \$2.08. You'll be impressed with the fine quality of these low-cost phones. Adjustable double headband; hyflux Alnico magnets; molded bakelite caps and cases. Perfect for private radio or TV listening or for communication receivers. Includes 4 $\frac{1}{2}$ -ft. cord with standard phone tip terminals. 2000 ohms. Wt., 1 $\frac{1}{4}$  lbs. 21 D 516. Great Value! Only . . . . . \$1.49

## 100 Assorted Capacitors

BOX OF 100, ONLY **69c**



LESS THAN 1c EACH! Hams, Experimenters, Servicemen—here's a sensational super-bargain assortment of 100 ceramic tubular capacitors. Not just one or two types—but a complete variety. Most are general-purpose NPO and N750 temperature coefficients—all are popular values ranging from .1 mmf through 3000 mmf. And best of all, you pay less than 1c a piece—just a fraction of their regular cost. It's an excellent chance to stock up. Shpg. wt., 3 oz. 39 A 357. Package of 100. Only . . . . . 69c



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# knight-kits<sup>®</sup>

A PRODUCT OF ALLIED RADIO

the world's finest do-it-yourself  
money-saving electronic equipment

## so satisfying to build

*Building it yourself is always rewarding  
fun . . . and it's fun at its best when you build  
beautifully engineered Knight-Kits . . .*

## —you save so much

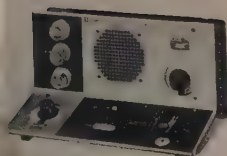
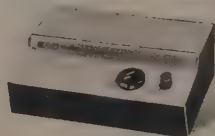
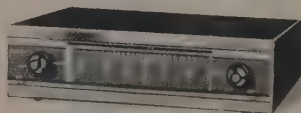
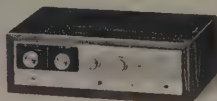
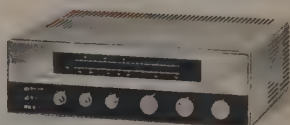
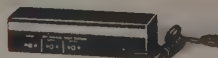
*You save substantially because you buy  
direct from Allied at big-volume-production prices—  
and because you do the easy assembly . . .*

## you own the best

*You'll be glad you built a Knight-Kit,  
because you'll enjoy with pride a true custom-built  
product—professionally engineered and styled . . .*

## so easy to buy

*NO MONEY DOWN buys the Knight-Kit of your  
choice on Allied's Credit Fund Plan . . . up to  
24 months to pay . . . enjoy up to 50%  
increased buying power . . .*



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SATISFACTION GUARANTEED  
OR YOUR MONEY BACK

available only from **ALLIED**

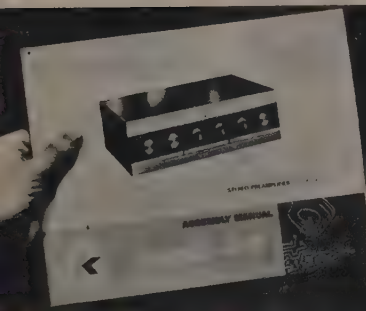
# Exclusive in **knight-kits**

## "CONVENIENCE DESIGN"

*makes you a real kit-building expert the very first time*

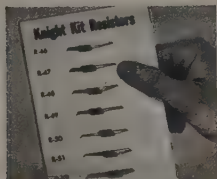
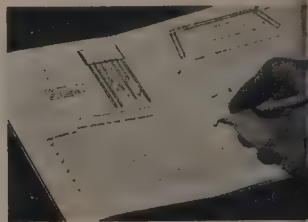
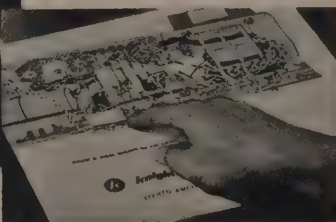
### IT'S LIKE HAVING A GOOD INSTRUCTOR AT YOUR SIDE

"Convenience Design" is the extra thoroughness found only in Knight-Kits. It is the special engineering that makes Knight-Kits easiest to build. It covers every step in assembly, from the time you open the carton to your finished working model. Here is what exclusive "Convenience Design" means to you:



### EXCLUSIVE "SHOW HOW" MANUALS

Never any guesswork, and never any doubts with these clearly written booklets—they guide you through assembly of your kit like a good instructor working at your side. They're loaded with illustrations, too!



### CARDED RESISTORS

Resistors are mounted on cards—each with identifying number. No need to know the color-code.

### DIAGRAMS THAT "TALK"

Wall-sized picture diagrams that can be tacked over your work table for ready reference—show you exactly where every part should go.



### "VISI-PACKED" PARTS ARE "READY-SORTED"

You can see right through the clear plastic bags in which small parts and hardware are packed—speeds assembly by eliminating searching.

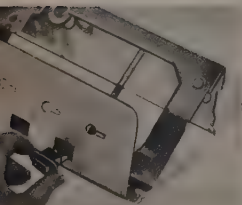
### "CAN'T MISS" INSTRUCTIONS

You always know exactly where you are and what you are doing with these "do and check," step-by-step instructions. They're the best!



### PRE-CUT WIRE

No measuring—no untangling. Wire is pre-cut, stripped, tinned and color-coded.



### PRE-PUNCHED CHASSIS

Heavily cadmium-plated chassis have all holes pre-punched. Sockets, controls, and other parts fit perfectly in place. No metal working necessary.



### IDENTIFIED PARTS VALUES

Values are clearly marked on all capacitors and other components for easy identification.



### QUICK-SET SOLDER

Eutectic solder helps prevent "cold" joints—passes directly from molten to solid state.

### COMPLETE—READY TO ASSEMBLE

Knight-Kits come to you in perfect order, ready for easy assembly. There's nothing else to buy—not even wire or solder!





# Buy any *knight-kit*

**BUILD IT! USE IT!**

**YOU MUST BE SATISFIED . . . OR  
YOU GET YOUR MONEY BACK!**



**ALLIED** fully protects your knight-kit purchase  
with this exclusive

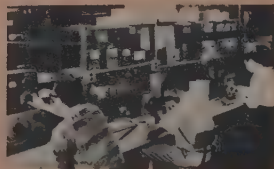
## **MONEY-BACK GUARANTEE**

Your Knight-Kit must meet with your complete  
satisfaction or your purchase price is refunded

## *knight-kits are Best — by Design*



**Expertly Engineered Knight-Kits** are packed by a skilled staff of kit-development specialists. Each kit is designed to provide top circuit performance—then is thoroughly field-tested under actual operating conditions.



**Quality Control** at every stage of development, plus thorough lab testing by highly trained technicians, is your assurance of flawless performance from your Knight-Kit. Rigid inspection standards are always maintained.



**Professional Styling** by leading designers has developed Knight-Kits into components of lasting beauty. You'll be genuinely proud of your kit's appearance—as well as its outstanding performance for years to come.



**Premium-Quality, Famous-Name Parts** are featured throughout every Knight-Kit. On each component part—whether standard or custom-made to our rigid specifications—you're certain to recognize a well-known name in the field of electronics.

### **ALLIED RADIO-KIT PIONEER**

For over 40 years, kit builders have looked to Allied for the finest in do-it-yourself electronics. Today's Knight-Kits—the exclusive product of Allied Radio—offer you all the quality that these years of experience can provide.

### **NO MONEY DOWN**

Purchase the Knight-Kit of your choice with **NO MONEY DOWN** on Allied's convenient new Credit Fund Plan.

### **FREE CONSULTING SERVICE—FACTORY CHECKING FACILITIES**

Our staff of experienced Knight-Kit technical consultants—as well as our completely equipped servicing facilities—are always at your command. If you have any question about Knight-Kits, either before you make a selec-

tion or after your kit is completed, we'll be glad to send a prompt, detailed reply. You can also have your Knight-Kit expertly checked or serviced—charges are nominal. Allied *fully protects* your Knight-Kit purchase.

Look to Knight-Kit for Leadership in the Field of Electronic Kits

# knight-kit

A PRODUCT OF ALLIED RADIO

## STEREO HI-FI KITS

**ENJOY THRILLING STEREO SOUND WITH MONEY-SAVING KNIGHT-KIT COMPONENTS**

Since you do the easy assembly yourself, Knight-Kit components cost far less than comparable factory-wired units. Offering uncompromising quality as well as up-to-the-minute styling, they're your very best dollar buy.

**EASY-TO-BUILD** Knight-Kits are a world of fun to put together. The careful packaging of parts plus the world's easiest to follow instructions make Knight-Kits a snap to build—even if you've had no previous electronic experience.

**MONEY-BACK GUARANTEE.** Any Knight-Kit you purchase must meet with your complete satisfaction, or your entire purchase price will be refunded.

**NO MONEY DOWN** purchases the Knight-Kit or Knight-Kits of your choice on Allied's Credit Fund Plan. You can enjoy your Knight-Kit music system now—pay later with easy, low monthly payments. Your buying power is increased up to 50%!

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# FM STEREO APPROVED!

## Knight-Kit Multiplex Adapter Ready

**NEW**

GOVERNMENTOK'S  
FM STEREO SYSTEM



compact design—  
self-powered—ideal  
for use with Knight-Kit  
FM or FM-AM tuners

ONLY  
**\$19.95**  
NO MONEY  
DOWN

stereo FM Multiplex reception at lowest cost

## Model KS-10 Multiplex Adapter Kit

Perfect for use with all Knight-Kit Tuners—or any other good quality wide-band tuner equipped with Multiplex outputs.

Here's exciting news for present owners of Knight-Kit "economy-line" tuners—or any other good quality, wide-band FM or FM-AM tuners that have Multiplex output jacks. Now you can enjoy all the breathtaking beauty and realism of stereo FM Multiplex broadcasts simply by adding this all-new, low-cost Multiplex adapter kit to your stereo music system.

Remarkably easy to build and use, the KS-10 simply plugs into your tuner's Multiplex output and your amplifier's "Tuner" inputs—no adjustments are necessary. Self-powered, the unit may be installed completely out of sight and does not have to be readily accessible. Simply plug the KS-10's AC power cord into the switched AC outlet on your amplifier or tuner, and it will turn on and off automatically along with the component to which it is connected—no need to turn it on and off separately!

The Knight-Kit KS-10 Multiplex Adapter is supplied complete with three 36" cables for input and output connections, metal cover, tubes, all parts, and world-famous Knight-Kit step-by-step instructions. 2 1/4 x 9 1/2 x 3 1/2". For operation from 110-125 volts, 60 cycle AC. Shpg. wt., 4 lbs.

83 YX 908. *No Money Down.* **ONLY** ..... **19.95**

## Now! Model KS-11 Multiplex Add-In Adapter Kit

for owners of *knight-kit* Deluxe Hi-Fi Tuners



ONLY  
**\$17.95**

For use with Knight-Kit  
Deluxe FM and FM-AM  
Tuner Kits (Stock Nos.  
83 YU 731, 83 YU 732).

### GOOD NEWS FOR THOUSANDS!

Calling all owners of Knight-Kit Deluxe FM and FM-AM Tuners! Here's easy "inboard" conversion to stereo Multiplex FM—and at a cost so low it's hard to believe. This complete adapter uses a single, printed-circuit board chassis—builds right into your Knight-Kit Deluxe Tuner quickly and easily. Takes power from tuner. Wt., 3 lbs.  
83 YX 907. **ONLY** ..... **17.95**



first time ever . . . complete Stereo Tuner-Amplifier "Audio Center" Kit . . .

lowest price ever . . . includes latest multiplex circuitry . . .

**NEW**



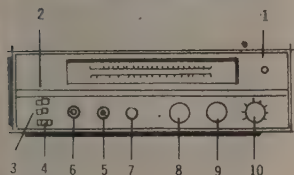
complete with Built-In 32-Watt Stereo Amplifier

## Model KU-45 AM-FM-MULTIPLEX Stereo Receiver Kit

ONLY  
**\$129<sup>95</sup>**

**NO MONEY  
DOWN**

### AMAZINGLY COMPLETE STEREO CONTROL



- Moderately Priced for Any Fine Music System
- Uses Popular Ratio Detector Wide-Band FM Tuning Circuit
- AFC and DSR Assure Drift-Free, Distortionless Stereo FM
- "Tuning Eye" Indicator Provides Easy Tuning on Both FM and AM

With features never before offered in a single, low-cost unit—powerful 32 watt stereo amplifier, dual-preamps with full array of controls, FM-AM tuner, *plus* FM Multiplex—the new Knight-Kit Model KU-45 "All-In-One" is an exceptional value for your music center. Just add speakers and you're ready to enjoy superb full-fidelity FM stereo programming as well as popular AM broadcasts. Advance-design provisions include: true center channel output for third stereo speaker or extension speaker; input facilities for stereo record player; and tape recorder inputs and outputs.

Assembly of this high-quality receiver is fast and enjoyable, even if you have had no previous kit-building experience. Circuit utilizes simple point-to-point wiring method; a special prewired, prealigned FM "front end" assures perfect performance. Incorporates AM loopstick antenna and FM folded-dipole antenna (both included). Supplied complete with all parts, tubes, wire, solder and easy-to-follow detailed instructions; less case, below. Distinctively styled in anodized Satin-Gold and Mocha. 4 $\frac{3}{4}$ "x16 $\frac{1}{4}$ "x13". For operation from 110-125 volts, 60 cycle AC. Shpg. wt., 39 lbs.

83 YU 993. Complete with Multiplex. ONLY . . . . . \$129.95

83 YU 619. As Above, but Less Multiplex Circuit. Model KS-10 Multiplex

Adapter Kit on opposite page may be added later. 35 lbs. ONLY . . . . . \$109.95

83 YX 646. Metal Case for KU-45. Shpg. wt., 5 lbs. ONLY . . . . . 7.95

### NEVER BEFORE SUCH FEATURES AT SO LOW A PRICE

**DSR.** Dynamic Sideband Regulation reduces overmodulation and fringe-area distortion to insignificance.

**Pre-Assembled, Pre-Aligned Front End.** Eliminates any need for further adjustments.

**Tapped-Screen Linear Output.** Provides exceptionally clean reproduction over entire audio range.

**Flywheel Tuning.** Makes station selection smooth and effortless.

**SEE HI-FI SYSTEM PAGES FOR** money-saving, Allied-recommended stereo music systems featuring famous Knight-Kit components.

**SPECIFICATIONS:** Amplifier Section—Power Output: 32 watts continuous sine wave power. Frequency Response:  $\pm 1$ db, 30-16,000 cps at rated power. Harmonic Distortion: 1.0% at rated power. Hum and Noise: better than -75 db (in "Tuner" position). Output Impedances: 4, 8, 16 ohms each channel; 8 and 16 ohms center channel. Inputs: 4 pairs. Tuner Section—FM Sensitivity: 2 $\mu$   $\mu$  usable IHFM sensitivity for 30 db quieting. IF Bandwidth: 200 kc at 3 db down. AM sensitivity: 3  $\mu$ v for 10 db S/N ratio. IF Bandwidth: 10 kc at 6 db down. Tube Complement: 17 tubes, plus rectifier.



STEREO HI-FI

NEW

years-ahead **TRANSISTORIZED** stereo hi-fi . . .  
 first time in easy-to-build kit form . . .  
 first time at such low cost



ONLY

\$79<sup>95</sup>NO MONEY  
DOWN

CASE OPTIONAL

brilliantly engineered circuit features unique "Thermal Feedback"

**Model KX-60 50-Watt All-Transistor Stereo Amplifier Kit**

- Precision, High-Efficiency 20-Transistor Circuit
- Incorporates Every Necessary Stereo Control Feature
- Direct-Coupled Output—No Transformers or DC Blocking Capacitors are Employed in Output Stage

Opening vast new horizons in stereo high-fidelity performance, the amazing Knight-Kit KX-60 is the first completely new, all-transistor amplifier to be offered in low-cost, build-your-own form. Featuring "Thermal Feedback", a Knight-Kit pioneered application of space-age transistor technology, the KX-60's advanced circuitry actually boasts genuine *direct coupling* between its output stage and your speakers. Response is exceptionally wide and flat, especially in the low-frequency range, since no output transformers or DC blocking capacitors are employed in the KX-60's output stages—a *real breakthrough in amplifier design!*

5 pairs of stereo inputs cover every sound source—even tape head. The KX-60's impressive array of controls is functionally grouped according to how much each control is used. Separation control adjusts for optimum separation of channels for best stereo effect—switches out completely at "MAX" position for maximum channel isolation. Single "Balance" control makes channel balancing a snap. Dual-concentric, clutch-type bass and treble controls adjust each channel individually or both simultaneously. Rumble and scratch filters let you "get the most" from your older records.

Expertly designed, regulated power supply provides the high stability required for best performance in transistor circuits. Tape recording outputs precede volume and tone controls for top-quality "taping." Ultra compact and lightweight, the KX-60's handsome "precision-look" styling features a rich Sierra Gold panel accented by a black Selector and Volume control escutcheon on the left. Less case, see below.  $2\frac{3}{4} \times 11 \times 9\frac{1}{4}$ ". For operation from 110-125 volts, 60 cycle AC. Shpg. wt., 8 lbs.

83 YU 994. No Money Down. ONLY.....79.95

83 YX 644. Metal Case for Above. Shpg. wt., 5 lbs. ONLY.....4.95

**OPTIONAL WOOD CABINET.** For KX-60, above. Handsome, hand-rubbed oiled walnut—perfect with today's modern decors. Absolutely safe to use, since amplifier develops no heat. Shpg. wt., 5 lbs.

83 YX 645. ONLY.....12.45

**ENJOY THE ADVANTAGES OF TRANSISTORIZED HI-FI**

**No Warm-Up.** Turn it on and start playing records instantly.



**Virtually No Hum or Noise.** Silken silence between selections and during quiet passages.

**No Microphonics.** You can shake it, rap it, tap it—never any mechanical noise to mar sound.



**Employs 20 Transistors.** Features 14 audio transistors, 6 power transistors, 4 diodes. No tubes or output transformers are used.

**Superb Sound.** Reproduction that must be heard to be believed.



**Runs Cool.** Develops no heat—requires no ventilation. Install it wherever you wish.

**High Gain.** Remarkably high gain (amplification) brings even extremely weak signals up to full 50 watt IHFM output. Highly efficient even when used with other than 4-ohm speakers.

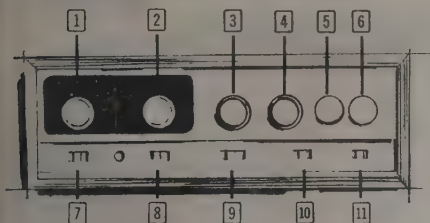
**Compact.** Thanks to the miracle of transistors, the KX-60 is amazingly compact and lightweight for an amplifier of its power rating. Only  $2\frac{3}{4}$ "H, 11"W,  $9\frac{1}{4}$ "D. Weighs only 8 lbs.

**Durable.** Ruggedly constructed throughout, the KX-60's transistorized circuit is immune to jars, vibrations, etc.



*handsome, compact styling . . . attractive anywhere!*

**INCLUDES EVERY IMPORTANT  
STEREO CONTROL FEATURE**



1. Selector: Auxiliary; Tuner; Phono; Tape Head.
2. Volume: Ganged control for both channels.
3. Bass: Dual-concentric, clutch-type control.
4. Treble: Dual-concentric, clutch-type control.
5. Separation: Provides variable blend of channels.
6. Balance: Adjusts for optimum stereo effect.
7. Rumble Filter: Attenuates below 60 cycles.
8. Scratch Filter: Attenuates above 3500 cycles.
9. Mode: Monophonic Left; Stereo; Monophonic Right.
10. Stereo Reverse: Normal or reverse stereo.
11. Power: Independent AC On/Off switch.

**SPECIFICATIONS:**

- Power Output:** 50 watts IHFM music power; 36 watts continuous sine wave power.
- Frequency Response:**  $\pm 1$  db, 20-20,000 cps at full rated power output.
- Harmonic Distortion:** Less than 1.0% at full output.
- Gain:** Tuner input, 90 db below full output; Magnetic Phono input, 60 db below full output.
- Inputs (5 pairs):** Tape Head (NAB); Magnetic Phono (RIAA); Ceramic Phono; Tuner; Auxiliary.
- Input Sensitivity (for full rated output):** Tape Head, 2 mv; Magnetic Phono, 2.5 mv; Ceramic Phono, 300 mv; Tuner, 500 mv; Auxiliary, 500 mv.
- Output Impedance:** 4 ohms each channel—also highly efficient with 8 and 16-ohm speakers.
- Crosstalk:** Better than -40 db on all inputs.

**Rigidly Lab and Field Tested**

Expert circuitry design, plus the most exhaustive lab and field testing imaginable, make the all-new KX-60 one of the best stereo values anywhere.

**EXCLUSIVE FEATURE! Thermal Feedback Makes the KX-60 The World's Finest Transistor Amplifier**

The KX-60 is the only transistor amplifier offering unique "Thermal Feedback." This exclusive circuit breakthrough puts this amplifier in a class by itself. It results in amazingly smooth, authentic frequency response, the highest output efficiency of any transistor amplifier—regardless of speaker impedance—and a genuine 36-watt continuous sine wave output throughout the entire frequency range of the amplifier.

**NO MONEY  
DOWN**

The Knight-Kit KX-60 is yours for **NO MONEY DOWN** on Allied's convenient Credit Fund Plan.



**COMPLETE DO-IT-YOURSELF 50-WATT  
STEREO PHONO SYSTEM VALUE**



**Knight-Kit KX-60**  
Transistorized Stereo  
Amplifier Kit

Garrard Autoslim Changer and Base;  
Knight KN-500X Cartridge  
with .0005" Diamond Needle



**FREE Stereo Demo Record**



**2—Knight KN-820 12"**  
Full-Range Speakers

**SYSTEM PRICE**

**\$163<sup>95</sup>**

**NO MONEY DOWN**

**SAVE \$26.78!** A custom stereo system with luxurious styling, dependable performance, and double savings, too! Save on cost of individual components purchased separately; save by assembling the amplifier yourself. System includes: Knight-Kit KX-60 50-Watt Amplifier Kit with Walnut Case; Garrard Autoslim Changer and Base; Knight KN-500X Cartridge with Needle; 2—Knight KN-820 12" Speakers; **FREE Stereo Demonstration Record.** Complete with all Allied system extras. Changer base in your choice of mahogany, limed oak or walnut finish. Shpg. wt., 41 lbs.

**20 HF 930. Specify Finish. ONLY. . . . \$163.95**

**SEE HI-FI SYSTEM PAGES FOR MORE  
KNIGHT-KIT SELECTED STEREO ENSEMBLES**

# knight-kit

STEREO HI-FI



enjoy the thrill of living STEREO FM  
with these deluxe tuner kits

**BUILT-IN  
MULTIPLEX  
CIRCUIT**



NEW IMPROVED WIDE-BAND FM CIRCUIT

... for a new dimension in thrilling stereophonic listening

ONLY  
**\$99<sup>95</sup>**  
NO MONEY  
DOWN

## KF-90 Stereo Multiplex FM-AM Tuner Kit

- Fully Equipped for Multiplex—Nothing Else to Add
- DSR Circuit Reduces FM Distortion to Insignificance
- Variable AFC for Drift-Free, "Lock-In" Tuning
- Factory Pre-Aligned RF Coils and IF Transformers
- $1\frac{1}{2}$   $\mu$ v IHFM Usable Sensitivity on FM

NOW—COMPLETE WITH  
BUILT-IN MULTIPLEX CIRCUIT  
FOR EXCITING, PANORAMIC  
STEREO FM LISTENING

Knight-Kit engineers had the future in mind when they designed this performance-proven tuner—and it's yours, now, *fully equipped for breath-taking stereo FM Multiplex reception*, at a cost so low it's hard to believe! In addition, its expertly-engineered "triple-chassis" construction provides separate FM and AM tuning for regular FM and AM listening—all in one completely self-contained, beautifully-styled unit.

Up-to-the minute circuitry incorporated in the built-in Multiplex circuit section provides thrilling, high-fidelity stereo reception with excellent channel separation and full dynamic range of sound. Dimension control on front panel adjusts channel separation for optimum stereo effect—even when speakers are widely spaced. "Multiplex" position on function selector permits switching Multiplex circuitry in or out instantly when tuning from stereo to mono broadcasts, etc.

Featuring Dynamic Sideband Regulation—an Allied-pioneered advance in tuner circuitry—the KF-90's FM section sets new standards in distortion-free reception. A form of inverse feedback, DSR reduces to insignificance both overmodulation distortion and distortion resulting from fringe-area signal weakness. Dual limiter-discriminator provides extremely high sensitivity. AFC assures drift-free listening—adjusts for tuning weak stations adjacent to strong ones, etc.

Customized AM section offers high sensitivity, plus choice of narrow and wide IF bandwidth for sharp or broad tuning. Also has 10-kc whistle filter and built-in loopstick antenna. All circuitry in the KF-90 is on printed circuit boards for fastest, easiest assembly. RF and IF transformers are carefully sweep-aligned at the factory—no critical alignment problems after the unit is assembled. Outputs are cathode-follower type with individual level set controls. Moving bar-type "magic eye" tuning indicators and weighted flywheels make "dialing" the KF-90 a pleasure.

Styling matches Knight-Kit KA-95 and KA-55 Stereo Amplifiers, KP-50 Stereo Preamp and KP-70 Tape Recorder Preamp. Supplied with attractive Cordovan Gray steel case—extruded aluminum panel in Desert Beige and Sand Gold. With FM, AM and Multiplex sections, all parts, wire, solder, instructions.  $4\frac{1}{8}$ " (plus  $\frac{3}{8}$ " legs) x  $15\frac{1}{2}$ " x  $15\frac{1}{2}$ ". Knobs extend  $1\frac{1}{4}$ ". For operation from 110-125 volts, 60 cycle AC. Shpg. wt., 29 lbs.  
**83 YU 914. No Money Down. ONLY. 99.95**

**83 YU 731.** Same as Model KF-90, above, but less Multiplex section—Model KS-11 adapter, below, may be built-in later. Shpg. wt., 25 lbs. **ONLY. 87.50**

**83 YX 907.** Model KS-11 "Add-In" Multiplex Adapter. Multiplex section for above. 3 lbs. **ONLY. 17.95**

## knight-kit—the low-cost way to the best in STEREO FM

Leading the field in imaginative engineering and design, Knight-Kit is proud to offer the first kit-form, complete Stereo Multiplex-FM-AM Tuner—the sensational KF-90. Amazingly low in cost, it embodies up-to-the-minute circuitry and design throughout—the best tuner value anywhere!

**MONEY-BACK GUARANTEE.** Your Knight-Kit must meet with your complete satisfaction or your purchase price will be refunded in full.

**NO MONEY DOWN** buys the Knight-Kit of your choice on Allied's Credit Fund Plan. Take up to 24 months to pay.



yours to enjoy in the building . . .  
and throughout the years to come

## YEARS-AHEAD FEATURES

precision quality the low-cost  
Knight-Kit way!

### DYNAMIC SIDEBAND REGULATION

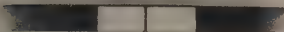


Distorted FM

FM with DSR

Offering the same benefits that inverse feedback provides in amplifiers, DSR produces the equivalent of wider IF and discriminator bandwidth—virtually eliminates the distortion problems in receiving weak and/or overmodulated FM signals.

### UNIQUE DUAL "MAGIC-EYE" TUNING



For pin-point tuning accuracy, premium-quality "magic-eye" tubes are employed. A moving beam of light glides across the dial—closes to a slit on stations.

## SPECIFICATIONS

### FM Section

**Sensitivity:**  $1\frac{1}{2}$   $\mu$ v usable IHFM sensitivity for 30 db quieting.

**IF Bandwidth:** 200 kc at 3 db down.

**Hum & IF Noise:** 60 db below 1 v.

**AFC Pull-In:**  $\pm$  150 kc, variable.

**Image Rejection:** 60 db.

**Antenna Impedance:** 300 ohms.

**Tubes:** 2—6AU6, 12AU7, 6AL5, 2—6CB6, 2—6AQ8, EM84 "Magic eye," EZ81 rectifier.

### AM Section

**Sensitivity:** 3  $\mu$ v for 10 db S/N ratio.

**Hum Level:** 60 db below 1 volt.

**10-Kc Whistle Filter:** 40 db rejection.

**Image Rejection:** 20 db.

**Frequency Response:** Narrow IF—20-7,000 cps, 6 db down at 3.5 kc; Wide—20-10,000 cps, 6 db at 6.5 kc.

**Tubes:** 2—6BA6, 12AU7, 6BE6, EM84 "magic eye."

### Multiplex Section

**Frequency Response:** 50-15,000 cps.

**Channel Separation:** 25 db.

ONLY  
**\$84<sup>95</sup>**  
NO MONEY  
DOWN

enjoy flawless **STEREO FM**

## Model KF-75 FM Tuner Kit WITH BUILT-IN MULTIPLEX CIRCUIT

- New, Improved Wide-Band IF Circuitry—Increased Sensitivity
- Printed Circuitry for Fastest, Easiest Assembly

For the quality-conscious, budget minded music lover—a deluxe FM tuner, featuring built-in stereo Multiplex circuitry—that's definitely in a class by itself! Identical to Model KF-90 on opposite page, but simply minus the AM section, this value packed tuner kit offers all the features you'd expect to find only in factory-wired units costing far more. Its improved IF circuitry provides exceptionally wide-band performance—an important feature for good FM reception and doubly important for good FM stereo Multiplex listening. Increased sensitivity provides greater-than-ever "pull-in" power—especially in fringe areas where signals are weak.

Other deluxe features of this expertly engineered FM tuner include: amazing Dynamic Sideband Regulation circuit for distortion-free reception; continuously variable AFC for "lock-in" tuning; "magic eye" bar-type tuning indicator; cathode-follower output; and all the excellent specifications listed in column at left under "FM Section" and "Multiplex Section." Unit is supplied with the same handsome case and extruded aluminum panel as Model KF-90 FM-AM tuner kit on opposite page, but has FM dial calibrations only.  $4\frac{1}{2}$ " (plus  $\frac{3}{8}$ " legs)  $\times$   $15\frac{1}{2}$ "  $\times$   $15\frac{1}{2}$ ". Knobs extend  $1\frac{1}{4}$ ". For operation from 110-125 volts, 60 cycle AC. Shpg. wt., 26 lbs.

83 YU 918. No Money Down. ONLY.....84.95

83 YU 732. FM Tuner Kit. Identical to Model KF-75, above, but less built-in Multiplex circuit. Model KS-11 Add-In Multiplex Adapter kit, below, may be built-in later to convert unit for full stereo Multiplex FM reception. Shpg. wt.,  $22\frac{1}{2}$  lbs. ONLY.....67.50

83 YX 907. Model KS-11 "Add-In" Multiplex Adapter Kit. Lets you convert above FM Tuner Kit (83 YU 732) for Multiplex stereo reception anytime you wish. Builds into chassis of tuner—takes power from tuner's power supply. Shpg. wt., 3 lbs. ONLY.....17.95

Knight-Kits Are Available on Allied's Credit Fund Plan

# **knight-kit**

**STEREO HI-FI**



*discover the thrill of stereophonic sound  
with an amplifier you build yourself*



ONLY  
**\$76.95**  
NO MONEY  
DOWN

*the pacemaker for superlative value, performance and styling*  
**Model KA-55 40-Watt Stereo Hi-Fi Amplifier Kit**

- Includes Every Necessary Stereo Feature
- Attractive, Modern Decorator Styling
- Comparable to Units Costing Far More

For years-ahead features and outstanding performance—for styling of lasting beauty—the Knight-Kit Model KA-55 Stereo Amplifier Kit represents a superlative value. Remarkably easy to assemble, this expertly engineered amplifier delivers a full stereophonic output of 40 watts continuous sine wave power. In addition, its fully integrated stereo preamplifier section accommodates any stereo or monophonic sound source.

Offering a host of "plus" features for thrilling stereo sound, this top-performer incorporates a specially-designed center-channel output. Unlike ordinary "sum-and-difference" arrangements, this expertly designed circuit actually provides a full-range center-channel that carries the "sum" of both stereo channels. Permits feeding the full audio range to a center speaker and/or hooking up extension speakers in other rooms.

Dual-concentric, clutch-type tone controls are employed to permit high flexibility in adjusting your system for optimum tonal color—let you regulate bass and treble on either channel separately or on both simultaneously. Five pairs of stereo input jacks accommodate every conceivable sound source—even tape head. Stereo balance control provides easy, one-knob adjustment of channel balance. Versatile mode switch permits selecting regular stereo operation or reversed stereo, and permits playing either the left or right channel alone or through both speakers at once.

A special binding post is included to eliminate any hum-producing ground loops. Has output jacks for stereo tape recording; RCA 6973 special hi-fi audio output tubes; rumble and scratch filters; heavy, extruded aluminum front panel; compensated loudness-volume control. World-famous Knight-Kit step-by-step instructions and giant, wall-size picture diagrams make this popular "40-watter" fun to build—even if you've had no electronic experience. Metal cabinet is finished in attractive Cordovan Gray—front panel is Desert Beige and Sand Gold. Supplied complete with cabinet, all parts, instructions, wire and solder.  $4\frac{1}{2}$ " (plus  $\frac{5}{8}$ " legs)  $\times 15\frac{1}{2}$ "  $\times 11\frac{1}{8}$ ". Knobs extend  $1\frac{1}{4}$ ". For 110-125 v., 60 cycle AC. Shpg. wt., 26 lbs.

83 YU 774. No Money Down. ONLY.....**76.95**

NO MONEY DOWN purchases the KA-55 Stereo Amplifier, above, as well as any other Knight-Kit you choose. Allied's Credit Fund Plan lets you buy now—pay later with up to 24 easy monthly installments.

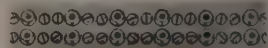
**CUSTOM FEATURES YOU'D  
EXPECT TO COST FAR MORE**



**FULL-RANGE CENTER-CHANNEL  
OUTPUT.** Permits adding "center  
channel" speaker to stereo system—  
as well as remote extension speakers.



**PRINTED CIRCUIT SWITCHES  
AND "PAC's".** "PAC" resistor-and-  
capacitor units and exclusive Knight-K  
printed circuit switches insure fast, r  
markably easy assembly.



**AMAZING VERSATILITY.** Five pairs  
of stereo inputs including direct "Tap  
Head" input—plus stereo tape record  
outputs—provide complete flexibility.

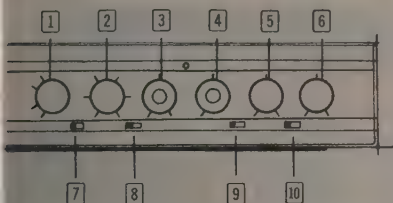


**EXTRUDED-ALUMINUM  
PANEL.** Deluxe styling in-  
cludes solid, extruded-alum-  
inum, two-tone front panel.

**Knight-Kits Are Famous for Their Easy-to-Follow Instructions**



## YOU'RE IN FULL COMMAND WITH AN ARRAY OF STEREO CONTROLS



Selects Tape Head, Phono, Tuner or Auxiliary.  
Mode: Stereo, Left or Right Channel only, etc.  
Bass Control: dual-concentric clutch-type.  
Treble Control: dual-concentric clutch-type.  
Balance: adjusts for proper stereo effect.  
Level: adjusts both channels simultaneously.  
Rumble Filter with slide-switch, Off-On.  
Scratch Filter with slide-switch, Off-On.  
Loudness: for full response at low volume.  
Power Switch: turns amplifier Off or On.

## SPECIFICATIONS

**Power Output:** 40 watts continuous sine wave power.

**Frequency Response:**  $\pm 1$  db, 25-20,000 cps at full rated power output.

**Distortion:** Harmonic, less than 0.75% at full rated power output; IM, less than 1.0% at full rated power output.

**Gain and Noise:** Tuner input, -77 db; Magnetic phono input, -55 db.

**Inputs:** (5 pairs): Tape Head (NAB), Magnetic Phono, Ceramic Phono, Tuner and Auxiliary.  
**Equalization:** Tape Head (NAB equalization), 2.2 db; Magnetic Phono (RIAA equalization), 2.2 db; Ceramic Phono, 300 mv; Tuner, 300 mv; and Auxiliary, 700 mv.

**Feedback:** 38 db negative feedback each channel.  
**Impedance:** 4, 8 and 16 ohms right and left channels; center channel output may be connected to 8 or 16 ohms.

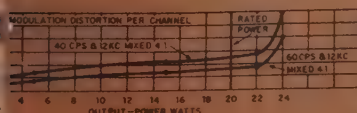
**Crosstalk Between Channels:** Better than 40 db down on all inputs.

**Complement:** 2-6EV7; 2-12AX7; 2-6CM8; 6973; GZ34 rectifier.

**SO EASY TO BUILD.** Your Knight-Kit comes to you complete, in perfect order, ready for easy step-by-step assembly. All parts are packaged in clearly marked groups. There's nothing else to buy—you even get wire and solder!

*Your Satisfaction is Guaranteed*

**PROOF OF PERFORMANCE.** This curve illustrates the superiority of the Knight-Kit 40-Watt Hi-Fi Amplifier Kit—compare before you buy!



## EASY-TO-ASSEMBLE DO-IT-YOURSELF 40-WATT STEREO MUSIC SYSTEM

Knight-Kit KA-55  
40-Watt Stereo  
Amplifier Kit



Garrard "Autoslim"  
Changer; Base; and  
Knight KN-500X  
Stereo Cartridge



Stereo Spectacular  
Demonstration Record



2-Knight  
KN-1200  
High Fidelity  
12" Speakers

ONLY  
**\$169.95**

**NO MONEY  
DOWN**

A carefully selected stereo phono system, powered by the sensational Knight-Kit KA-55 Stereo Amplifier—an ideal "centerpiece" for this fine system. And you save in two ways: by assembling the amplifier yourself; and by taking advantage of Allied's System plan savings of \$27.33 over the cost of components purchased separately. The ultra-compact Garrard "Autoslim" changer has the Knight KN-500X cartridge with .0005" diamond needle installed. Knight KN-1200 speakers can be used in any custom-installation to provide magnificent, living sound. All Allied system extras included. **Base** in mahogany, lined oak or walnut. Shpg. wt., 69 lbs.  
20 HF 924. *Specify Finish.* ONLY.....169.95

SEE HI-FI SYSTEM PAGES FOR MORE KNIGHT-KIT  
SELECTED STEREOPHONIC HI-FI ENSEMBLES

**Knight-Kits Are Finest by Design**

**395**

# knight-kit

STEREO HI-FI



the do-it-yourself stereo masterpiece that you'll enjoy now and for years and years to come



ONLY

**\$119.95**

**NO MONEY DOWN**

feature-packed powerhouse . . . brilliant advanced design

## Model KA-95 70-Watt Stereo Hi-Fi Amplifier Kit

- Clutch-Type Concentric Bass and Treble Controls
- Independent Tape Inputs & Outputs on Each Channel
- DC on All Preamplifier Tube Filaments

A masterpiece of brilliant engineering, the magnificent Knight-Kit 70-Watt Stereo Amplifier includes every function necessary for maximum flexibility and finest performance in the reproduction of stereophonic sound! This mighty "70-watter" represents truly outstanding value, too—since it's yours in easy-to-assemble, money-saving Knight-Kit form.

The KA-95 features a flexible preamplifier which includes a special stereo "Blend" control. By increasing or decreasing channel separation, this control electronically "moves" your speakers farther apart or closer together for optimum stereo effect. A special output lets you add a third "center channel" speaker to avoid "hole-in-the-middle" effect when speakers are widely spaced—also allows easy hook-up of remote speakers. Two switches let you phase all channels to one another.

Six pairs of stereo inputs accommodate all possible sources of sound. Clutch-type concentric bass and treble controls let you individually or simultaneously adjust channels for the tone you desire. A single-knob balance control guarantees easy channel balancing for best stereo effect. For tape recordists, there are tape outputs and inputs on each channel—functioning independently of volume and tone controls. "Source-Tape" monitor switch permits comparison of recordings with input source. A separate switch provides equalization for  $7\frac{1}{2}$  or  $3\frac{3}{4}$  ips tapes when playing them directly from playback head into the KA-95's "Tape Head" input.

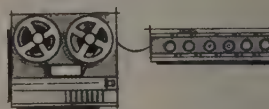
Also included: input paralleling switch to eliminate vertical noise components when playing mono discs with a stereo cartridge; RC rumble and scratch filters on each channel; ganged-master volume control with switch to convert to loudness control; separate tuner level set controls for each channel; low-noise resistors in critical circuits; exceptionally high sensitivity at Phono and Tape Head inputs; DC on all preamp filaments.

Carefully planned panel markings permit surprisingly simple operation. Handsome steel case in Cordovan Gray with heavy, extruded aluminum panel in Desert Beige and Sand Gold. The KA-95 comes complete with wire and solder, plus easy-to-follow instructions with wall-size picture diagrams. Size,  $4\frac{1}{8}$  (plus  $\frac{5}{8}$ " legs)  $\times 17\frac{1}{2} \times 13\frac{1}{4}$ ". Knobs extend  $1\frac{1}{4}$ ". For operation from 110-125 volts, 60 cycle AC. Shpg. wt., 31 lbs.

83 YU 934. No Money Down. ONLY . . . \$119.95

**ENJOY STEREO HIGH-FIDELITY NOW . . .** by taking advantage of Allied's new Credit Fund Plan—no money down—up to 24 months to pay—enjoy up to 50% more buying power.

### CUSTOM FEATURES



**Tape-Source Monitor.** Select playback from tape head or from sound source—lets you hear your tape while you are recording!

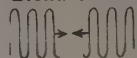


**Center-Channel Output.** Lets you add a full-range stereo "center channel" speaker and/or monophonic extension speakers in other rooms.



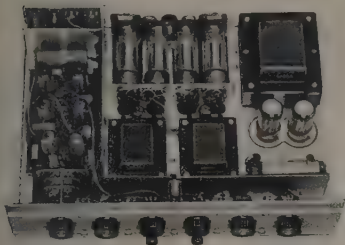
**Printed Circuit Switch.** A Knight-Kit exclusive, this ingenious switch insures unbelievably simple assembly. Just snap into printed circuit board—solder—and it's done!

**"Blend Control."** Increases or decreases channel separation for best stereo effect.



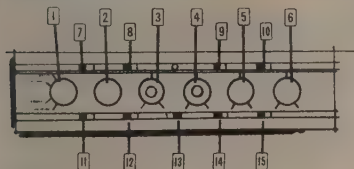


## A MARVEL OF PRECISION DESIGN YET SO EASY TO BUILD



Expert design plus step-by-step instructions make the KA-95 fun to build—assure years of top performance too!

### COMPLETE STEREO CONTROL



1. Input (Tape Head, Tuner, Phono, Aux.)
2. Blend (channel separation)
3. Bass (dual-concentric clutch-type)
4. Treble (dual-concentric clutch-type)
5. Channel Balance
6. Master Volume
7. Rumble Filter Off-On
8. Scratch Filter Off-On
9. Tape Monitor (Source-Tape)
10. Center Channel Off-On
11. Tape Equalization (3% and 7 1/2 ips)
12. Stereo, Reverse/Mono L, Mono R
13. Parallel/Stereo/Monophonic L-R
14. Loudness Off-On
15. Power Off-On

### SPECIFICATIONS:

**Rated Power Output:** 70 watts continuous sine wave power.

**Frequency Response:**  $\pm 0.5$  db, 20-30,000 cps at full power output.

**Distortion:** Harmonic, 0.5% at full power (1 kc reference); IM, less than 1.0% at full power (60 cps and 4 kc mixed 4:1).

**Hum and Noise:** Better than 85 db below full power for Tuner, Tape, Aux and Ceramic Phono inputs; better than 55 db below full power for Magnetic Phono inputs; better than 45 db below full power for Tape Head inputs.

**Inputs** (6 pairs): Tape Head; Magnetic Phono; Ceramic Phono; Tuner (with separate level controls); Auxiliary; Tape.

**Sensitivity:** All high-level inputs, 100 mv at full power output; Magnetic Phono, 1.7 mv, Tape Head, 1 mv for full power output.

**Output Impedances:** 4, 8 and 16 ohms on each channel; center channel matches either 8 or 16 ohm speakers.

**Tubes:** 2-12AY7; 2-7025; 2-UF86; 2-ECC83/12AX7; 4-EL34; 2-GZ34 rectifiers.

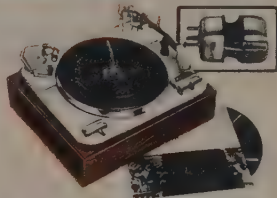


## Do-It-Yourself Super-Power 70-Watt Stereo Phono Music System



Knight-Kit KA-95  
70-Watt Stereo  
Amplifier Kit

Garrard "Type A"  
Automatic Turn-  
table; Base;  
Knight KN-500X  
Stereo Cartridge



Demonstration Record



2—Knight KN-800A  
3-Way 12"  
Speakers

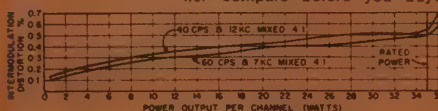
ONLY  
**\$279<sup>95</sup>**  
NO MONEY  
DOWN

SAVE \$34.33 OVER THE COST OF COMPONENTS PURCHASED SEPARATELY. Here's custom stereo hi-fi at a bargain price. Includes components shown above, plus Allied's array of system extras, too. Garrard's "Type A" provides top performance. KN-500X has .0005" diamond stylus. KN-800A's have 35-15,000 cps response. Changer base in mahogany, lined oak or walnut. Shpg. wt., 81 lbs.  
20 HF 936. *Specify finish.* ONLY.....279.95

See Hi-Fi Section of this Catalog for  
More Knight-Kit Stereo Ensembles

### PROOF OF PERFORMANCE

This curve represents just one example of the superiority of the Knight-Kit 70-Watt Stereo Amplifier—compare before you buy!



**knight-kit**  
STEREO HI-FI



*feature for feature—dollar for dollar—the finest  
stereo amplifier available at this low price!*



*superlative performance . . . money-saving value . . . ultra-smart styling*

## Popular Model KA-40 32-Watt Stereo Hi-Fi Amplifier Kit

- DC on Preamp Tube Filaments Cuts Hum
- Independent Tape Recording Outputs
- Simplified Controls for Easy Adjustment

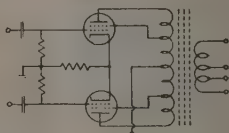
### YOU GET THESE SUPERIOR FEATURES AT NO EXTRA COST



**Tape Head Inputs.** Provide NAB equalization when playing tapes directly from tape heads into amplifier.



**Center-Channel Output.** Lets you use full-range stereo "center channel" speakers as well as monophonic extension speakers in other rooms.



**Tapped-Screen Linear Output.** Advanced-design circuitry provides extraordinarily clean reproduction across the entire audio spectrum.



**Four 7189 Output Tube**  
Premium-quality, specially designed audio tubes for peak performance in high-fidelity amplifier output stages.

A remarkable value by any standard of comparison, this amplifier represents an outstanding achievement in high-fidelity design. Capable of strikingly pure, powerful stereo reproduction, the KA-40 delivers 16 watts of continuous sine wave power per channel for a total of 32 watts of stereo power output. The two fully integrated preamps provide precise RIAA equalization for all magnetic cartridges. Also incorporates stereo inputs for ceramic cartridge, tuner, tape head and auxiliary. Its versatile controls give you full command of stereo reproduction with unexcelled ease and precision.

A special center channel output permits connecting a full-range "center channel" stereo speaker to eliminate any "hole-in-the-middle" effect when using widely spaced speakers. Also lets you put speakers in other rooms to handle both stereo channels monophonically—no external transformers or mixers are required. Also included are: convenient, ganged bass and treble controls that boost or attenuate both channels simultaneously for adjustment of tonal quality to suit your taste; single-knob balance control for optimum channel balance during stereo playback; slide switch for paralleling channels when playing monophonic discs; DC on preamp filaments to lower hum and noise levels to inaudibility; easy access to all inputs and outputs from rear apron of chassis; two accessory AC outlets (one switched on and off with amplifier); tape recorder outputs which function independently of tone and volume controls—a marvelous convenience for tape recording enthusiasts.

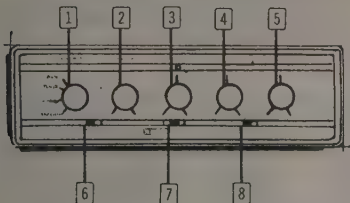
Housed in an attractive Desert-Beige and anodized Sand-Gold escutcheon and Cordovan Gray case, the Model KA-40 harmonizes beautifully with any decorative setting—you'll take great pride in its looks. With cabinet and all parts, including pre-cut and stripped wire—you even get solder.  $4\frac{1}{4}$ " (plus  $\frac{3}{8}$ " legs)  $\times 14\frac{3}{4}$ "  $\times 11\frac{3}{4}$ ". For 110-125 v., 60 cycle AC. Shpg. wt., 24 lbs.  
83 YU 933. No Money Down. ONLY . . . . . 59.95

**ENJOY STEREO HI-FI NOW** . . . use Allied's new Credit Fund Plan—no money down—up to 24 months to pay.



*the perfect low-cost amplifier for a quality stereo system*

## REMARKABLY COMPLETE STEREO CONTROL CENTER FACILITIES



1. Input Selector (Tape Head, Phono, Tuner, Auxiliary)
2. Volume Control
3. Treble { Boost or Attenuate Each
4. Bass { Channel Simultaneously
5. Channel Balance
6. Mon-L/Mon-R/Stereo/Reverse
7. Parallel/Stereo/Mon L-R
8. Power Off-On

### SPECIFICATIONS:

**Power Output:** 22 watts continuous sine wave power.

**Frequency Response:**  $\pm 1$  db from 30 to 16,000 cps each channel full rated power output.

**Harmonic Distortion:** Less than 1% at full output.

**Tuning and Noise:** Better than 75 db per channel below full output high level inputs; 52 db per channel below full output at magnetic phono input with 10 mv input reference signal; better than 45 db per channel below full output at tape head input with 10 mv reference signal.

**Inputs (5 pairs):** Tape Head, Magnetic Phono, Ceramic Phono Tuner and Auxiliary.

**Sensitivity (per channel at full power):** Magnetic Phono, 2 mv; Ceramic or Crystal Phono, 150 mv; Tape Head 2 mv; Tuner, 200 mv; and Auxiliary, 500 mv.

**Negative Feedback:** 25 db per channel.

**Crosstalk Between Channels:** -40 db or better.

**Output Impedances:** 4, 8, and 16 ohms on right and left channels; center channel output may be connected for 8 or 16 ohms.

**Knight-Kit  
Guarantees  
Satisfaction**

After you assemble your kit, it must meet with your complete satisfaction or your entire purchase price will be refunded.

**SO EASY  
TO BUILD**

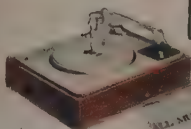
Step-by-step instructions and giant-size picture diagrams guide your every move—simple point-to-point wiring.

## LOW-COST DO IT YOURSELF 32-WATT STEREO PHONO SYSTEM



Knight-Kit  
KA-40  
32-Watt Stereo  
Amplifier

Garrard "Autoslim"  
Changer and Base;  
Knight KN-500X  
Stereo Cartridge



Demonstration  
Record



2—Knight KN-1200  
COAX. 12"  
Hi-Fi Speakers

### SYSTEM PRICE

**\$157<sup>95</sup>**

**NO MONEY  
DOWN**

For the budget-conscious "do-it-yourself"—a beautifully balanced stereo phono system featuring the Knight-Kit KA-40 amplifier. You make a substantial saving by assembling the amplifier yourself—and you pocket extra savings of \$22.33 by taking advantage of Allied's system plan price. The KA-40 accepts any stereo or monophonic input—has plenty of power to handle wide dynamic ranges. Garrard's "Autoslim" record changer is ultra-compact; teams up with the Knight KN-500X and its .0005" diamond stylus for breathtaking stereo realism. The Knight speakers employ dual elements for rich, full sound. You get all Allied system extras, too! Changer base in mahogany, limed oak or walnut. Shpg. wt., 67 lbs.  
20 HF 923. Specify Finish. ONLY.....157.95

# knight-kit



priced within reach of even the lowest hi-fi budget—looks and sounds like twice the price!

STEREO HI-FI



thrilling performance . . . handsome styling . . . remarkably low in cost

## Model KA-25 20-Watt Stereo Hi-Fi Amplifier Kit

- Breath-Taking Stereo at Amazingly Low Cost
- DC on Preamp Filaments for Lowest Hum and Noise
- Simplified, Exceptionally Easy-to-Use Controls

ONLY  
\$39.95

NO MONEY  
DOWN

Combining superb performance, advanced design and smart, modern styling, the famous Knight-Kit 20-Watt Stereo Amplifier Kit represents value supreme. Amazingly easy to assemble, this versatile unit delivers 10 watts of continuous sine wave power into each of two speaker systems for a full 20 watts of panoramic stereo sound. Complete with built-in preamplifiers on each channel, the "20-watter" accommodates magnetic stereo cartridges as well as crystal and ceramic cartridges, tuner and auxiliary.

The simplified controls, incorporated in this top-performer's built-in preamplifier section, let you regulate the effect of your stereo sound with exceptional ease and accuracy. A special clutch-type, dual-concentric level control provides convenient adjustment of volume on either channel individually or on both together. A single selector switch is incorporated to permit convenient, simplified selection of both the desired input source and the function—stereo, monophonic, stereo reverse, etc. Separate, ganged bass and treble controls boost or attenuate on both channels simultaneously for complete control of tonal color.

Among this stereo favorite's many other deluxe features are: expertly designed push-pull output circuitry for clean high-fidelity output over the entire audible range of sound; DC operation of all preamp tube filaments for hum-free performance; built-in RIAA equalization for stereo and monophonic records; switched AC accessory outlet for added convenience—plus all of the excellent specifications shown on the following page.

Simplified point-to-point wiring and special two-piece chassis construction speed assembly time—assure perfect performance as soon as your kit is completed. No special tools are required—all you need are a screwdriver, long-nose pliers, and a soldering iron. Case is finished in Cordovan Gray with front panel in rich-looking Desert-Beige and Sand Gold. Trim, knurled knobs are black with gleaming gold inserts. Complete with all parts, easy instructions, wire and solder. Size,  $4\frac{1}{4}$  (plus  $\frac{3}{8}$ " legs)  $\times 13\frac{1}{4}$   $\times 8\frac{1}{2}$ ". For operation from 110-125 volts, 60 cycle AC. Shpg. wt., 17 lbs. 83 YX 927. No Money Down. ONLY. . . . . 39.95

**NO MONEY DOWN** purchases the Knight-Kit of your choice on Allied's Credit Fund Plan. You get up to 24 months to pay—up to 50% increased buying power!

### Custom-Quality Features at a Budget-Sparing Price

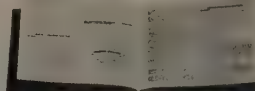


**CLUTCH-TYPE CONTROL.** Dual concentric clutch-type level controls provide individual or simultaneous volume

adjustment of channels. Special friction clutch "locks" knobs together, yet permits either to be turned separately.



**ONE KNOB SELECTOR.** Single selector switch provides choice of inputs as well as selection of stereo, stereo reverse, and monophonic operation.



**SO EASY TO ASSEMBLE.** World-famous Knight-Kit Instructions guide you every move. It's fun, easy, and a genuinely rewarding experience.

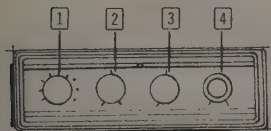
**DC PREAMP FILAMENTS.** DC operation of all preamplifier tube filaments assures noiseless hum-free performance—a deluxe feature usually found only in much costlier factory-wired units.



# Complete Do-It-Yourself 20-Watt Stereo Phono System At Tremendous Savings

ready for your own custom installation

## EASY-TO-OPERATE STEREO CONTROLS



- 1 Input Selector and Mode-of-Operation Switch
- 2 Dual, Ganged Bass Control
- 3 Dual, Ganged Treble Control
- 4 Clutch-Type, Dual-Concentric Volume Controls

## SPECIFICATIONS

**Power Output:** 20 watts continuous sine wave power.

**Frequency Response:**  $\pm 1.0$  db, 30-15,000 cps at full rated output.

**Harmonic Distortion:** Less than 1.5% at full rated power output.

**Hum and Noise:** Better than 65 db below full rated power output (Tuner); better than 50 db below full rated power output (Mag Phono).

**Inputs** (4 pairs): Magnetic Phono, Ceramic or Crystal Phono, Tuner, Auxiliary.

**Sensitivity** (per channel for full rated power output): Magnetic Phono, 6 mv.; Ceramic Input, 0.4 v.; Tuner and Auxiliary, 1 volt.

**Negative Feedback:** 13 db.

**Impedances:** 4, 8 and 16 ohms.

**Tubes:** 2—ECC83/12AX7; 4—ECL82, EZ81/6CA4 rectifier.



ONLY  
**\$136<sup>95</sup>**

NO MONEY  
DOWN



Beautifully Styled,  
Knight-Kit KA-25  
20-Watt Stereo  
Amplifier Kit



2—Electro-Voice 12"  
3-Way Speakers—Ideal  
for Custom Installation



Garrard Autoslim  
Changer and Base;  
Knight KN-500X  
Cartridge with .0005" Dia-  
mond Needle; 12" Stereo  
Demo Record

Your Satisfaction is Guaranteed



## Easy to Build . . . Great to Own!

The fun begins the very moment you unpack the Knight-Kit "20-watter" and start the easy, step-by-step assembly. Carded resistors . . . parts in clear-plastic packages . . . and the world's finest build-it-yourself instructions make assembly a truly rewarding experience. Thousands already know the satisfaction of building a Knight-Kit . . . why not see for yourself?

## YOU SAVE IN TWO BIG WAYS

You save in two important ways: you save because the cost of this system is far less than the total cost of the individual components purchased separately—and you save by assembling the amplifier yourself.

|                                                   |                 |
|---------------------------------------------------|-----------------|
| Knight-Kit 20-Watt Stereo Amplifier Kit . . . . . | \$39.95         |
| Garrard Autoslim Record Changer & Base . . . . .  | 43.99           |
| Knight KN-500X Cartridge—Diamond Needle . . . . . | 17.95           |
| Two—E-V LT-12 12" 3-Way Speakers . . . . .        | 57.82           |
| Allied Stereo Demonstration Record . . . . .      | 2.49            |
| <b>TOTAL REGULAR CATALOG PRICE . . . . .</b>      | <b>\$162.20</b> |
| <b>ALLIED SYSTEM PLAN PRICE . . . . .</b>         | <b>136.95</b>   |

**YOU SAVE . . . \$25.25**

Changer base in mahogany, limed oak or walnut—specify choice. System operates from 110-125 v., 60 cycle AC. Shpg. wt., 51 lbs.  
20 HF 920. No Money Down. ONLY . . . . . 136.95

SEE HI-FI SYSTEM PAGES FOR MORE  
KNIGHT-KIT STEREO ENSEMBLES

Depend on Knight-Kits for Unsurpassed Value and Performance

**knight-kit**  
HIGH-FIDELITY



*you get more, you enjoy more with these  
sensitive, easy-to-build hi-fi tuners*



*first choice of budget-minded hi-fi enthusiasts*

### Model KF-65 High-Fidelity FM-AM Tuner Kit

- AFC Circuit Provides Drift-Free "Lock-In" Tuning of FM Stations
- Cathode Follower Main Output Plus Stereo Multiplex Adapter Output
- Pre-Aligned RF and IF Coils—No Need for Further Adjustments

ONLY

**\$49<sup>95</sup>**

**NO MONEY  
DOWN**

Beautifully styled, and delivering genuine hi-fi performance at far less cost than comparable factory-wired units, the KF-65 combines a host of advanced features that easily make it the finest tuner in its class. A tuned RF stage on FM, plus a wide-range flat frequency response guarantee sparkling high-fidelity reception. AFC circuit "locks in" stations—prevents annoying drifting. In addition, an AFC defeat switch helps you tune distant FM stations. Cathode-follower output lets you run a long lead to your amplifier without high-frequency loss—and there's a Stereo Multiplex Adapter output, too (use with Model KS-10 Multiplex Adapter Kit on next page for thrilling stereo reception of FM Multiplex broadcasts).

Also featured: a heavy flywheel for effortless tuning, and a built-in, rotatable AM ferrite antenna. Assembly is simplicity itself—printed circuit boards eliminate most wiring—and Knight-Kit's step-by-step instructions virtually won't let you make an error. Smart Cordovan Gray steel case; Desert Beige and Sand Gold panel; neon glow pointer. With wire and solder.  $4\frac{1}{4}$  (plus  $\frac{5}{8}$ " legs) x  $13\frac{1}{4}$  x 8". For 110-125 v., 60 cycle AC. Shpg. wt., 13 lbs.

83 YX 928. *No Money Down.* ONLY.....**49.95**

#### SPECIFICATIONS

**FM SECTION**—Sensitivity: 4  $\mu$ V IHFM usable sensitivity for 30 db of quieting. Response: 20-20,000 cps. IF Bandwidth: 50% down at 200 kc.

**AM SECTION**—Sensitivity: 3  $\mu$ V for 10 db signal-noise ratio. IF Bandwidth: 50% down at 8 kc.

**GENERAL—Hum & Noise:** —60 db. Controls: Selector (AFC, FM, AM, OFF); Tuning. Outputs (2): Amplifier; Stereo Multiplex Adapter (can be connected for recorder, if desired). Tube Complement: 6AN8; 6BE6; 6BA7; 12AT7; 2—6AU6; ECC82/12AU7; 6AL5; 6X4 rectifier.

*top performance at lowest cost*

### Model KF-35 FM Tuner Kit

For high-fidelity FM that anyone can afford—for outstanding performance and best-quality components—choose this low-cost FM tuner kit. A marvel of assembly ease, this tuner employs a full 7-tube circuit for extra-clean, first-rate FM reception.

The KF-35 features: printed circuitry for simplest assembly; automatic frequency control (AFC) for "lock-in" drift-free tuning; pre-aligned RF and IF sections; effortless flywheel tuning; cathode follower main output; Stereo Multiplex Adapter output for FM stereo-casts (see adapter on facing page).

Beautiful Cordovan Gray steel case has soft plastic feet; control panel is Desert Beige and Sand Gold. With wire, solder, easy-to-follow instructions.  $4\frac{1}{4}$  (plus  $\frac{5}{8}$ " legs) x  $13\frac{1}{4}$  x 8". For operation from 110-125 volts, 60 cycle AC. Shpg. wt., 13 lbs.

83 YX 931. *No Money Down.* ONLY.....**35.95**

**SPECIFICATIONS**—Sensitivity: 4  $\mu$ V IHFM usable sensitivity for 30 db of quieting. Response:  $\pm\frac{1}{2}$  db, 20-20,000 cps. Hum Level: —45 db. Controls: Selector (FM, FM/AFC, OFF); Tuning. Outputs (2): Amplifier; Stereo Multiplex Adapter (can be connected as tape-recorder output if preferred). Tube Complement: 6BQ7A; 6BA7; 12AT7; 2—6AU6; 6AL5; 12AU7; 6X4 rectifier.



ONLY

**\$35<sup>95</sup>**

**NO MONEY  
DOWN**



more for your hi-fi dollar in amplifier features,  
performance and styling . . . a pleasure to build



ONLY  
\$39.95  
NO MONEY  
DOWN

wide, smooth, true hi-fi response

## Model KM-20 18-watt Monophonic Hi-Fi Amplifier Kit

### SPECIFICATIONS

**Rated Power Output:** 18 watts continuous sine wave power.

**Frequency Response:**  $\pm 1$  db, 30-16,000 cps at rated power.

**Harmonic Distortion:** 0.5% at full rated power output.

**Hum and Noise:** Better than 70 db below 18 watts (Tuner); 52 db (Magnetic Phono).

**Sensitivity (For Full Output):** Tape Head and Mag. Phono, 5 mv; Mic., 35 mv; Aux. and Tuner, 1.8 v; Ceramic Phono, 0.5 v; Tape, 0.4 v.

**Output Impedances:** 4, 8, 16 ohms.

**Tubes:** 2—ECC83/12AX7; EF86/Z1729; 2—6973/6CZ5; EZ81/6BW4 rectifier.

The remarkable Model KM-20 brings you flawless high-fidelity sound at about one-half the cost of comparable commercially-assembled units—a splendid amplifier to serve as the center of a fine music system. It's great as an "add-on" amplifier for stereo use, too. Delivers 18 watts of continuous power at an imperceptible 0.5% distortion; uses RCA 6973 hi-fi output tubes. Among its many features are: separate recorder output for taping any program source independently of amplifier controls; equalized input for tape head; 4 high-gain inputs; 4 low-gain inputs; AC convenience outlet; etc. Since most of the wiring is on printed circuit boards, assembly time is greatly reduced. Construction is even further simplified by Knight-Kit's exclusive printed circuit switch—just snap switch onto the PC board and solder pins into place—you can't go wrong. Comes complete with attractive Cordovan Gray case with Desert Beige and Sand Gold control panel. With all parts, tubes, wire, solder and world-famous Knight-Kit instructions with wall-size picture diagrams.  $4\frac{1}{4}$ " (plus  $\frac{3}{8}$ " legs) x  $13\frac{1}{4}$ " x 8". For 110-125 v., 60 cycle AC. Shpg. wt., 15 lbs.

83 YX 930. No Money Down. ONLY.....39.95

Now! Enjoy the breathtaking beauty of the new Stereo FM broadcasts!

## New Model KS-10 Stereo FM Multiplex Adapter Kit

Thrill to the exciting depth and beauty of stereo-phonetic FM broadcasts by using this low-cost multiplex adapter kit with your present FM tuner (if it has a Multiplex output). No controls—no adjustments—simply plug this self-powered unit's AC cord into the switched AC outlet of your amplifier or tuner—adapter turns on and off with component to which it is connected.

Very carefully engineered the KS-10 provides top performance with Knight-Kit's "economy" tuners (as shown on facing page). Complete with 3—36" plug-in cables, easy instructions. Size,  $2\frac{1}{4}$ " x  $9\frac{1}{2}$ " x  $3\frac{1}{8}$ ". For operation from 110-125 volts, 60 cycle AC. Shpg. wt., 4 lbs.

83 YX 908. No Money Down. ONLY.....19.95

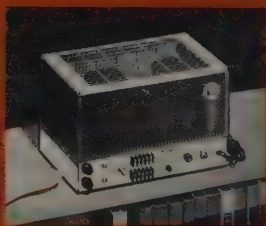
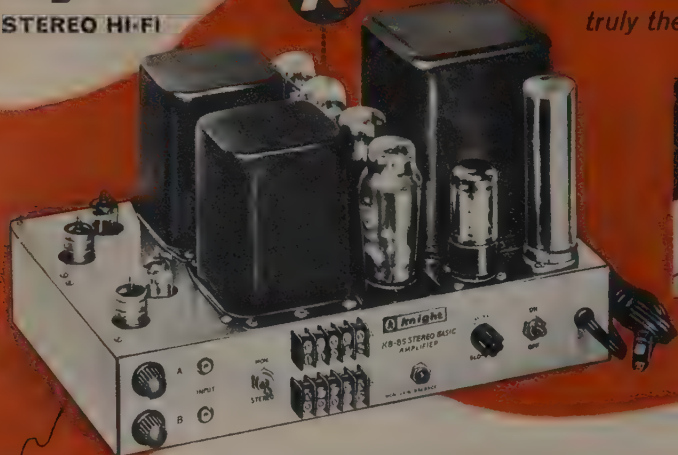


Custom-designed for Knight-Kit tuners, this easy to build unit has no controls—no adjustments. Just "plug it in", and you're all set for marvelous stereo FM!

ONLY  
\$19.95  
NO MONEY  
DOWN

**DO-IT-YOURSELF HI-FI FURNITURE** gives you more . . . for less. See hi-fi section of this catalog for a wide selection of beautiful, custom-crafted Knight enclosures and equipment cabinets.

**DO-IT-YOURSELF HI-FI SYSTEMS** bring you big 2-way savings. You save by enjoying Allied's special system price, and by assembling the kit components yourself. See listings in this catalog.



Gleaming Chrome-Plated Chassis—Optional Gray Metal Cover

ONLY  
**\$84.50**

**NO MONEY DOWN**

Superb Stereo Hi-Fi Value . . . Its Quality Defies Comparison

### Model KB-85 Deluxe 70-Watt Basic Stereo Amplifier Kit

- Extremely Wide Frequency Response
- Tremendous Reserve Power
- Unexcelled Design; Premium-Quality Parts

A superb stereo basic amplifier that surpasses the expectations of even the most critical audio connoisseur! The KB-85 employs only the very finest components available. Its powerful 70 watts continuous power output makes it the ideal amplifier for use with the popular high-compliance, low-efficiency speaker systems as well as all good-quality, high-efficiency speakers. A perfect partner for the Knight-Kit Deluxe Stereo Preamp kit at right.

Highlighting the features of this performance-acclaimed unit are: superior high-fidelity tubes, low-noise resistors in all critical circuit stages; 35 db of negative feedback per channel to reduce distortion to insignificance; switch for quick stereo-monophonic changeover; etc. Employs two printed circuit boards for remarkably easy, accurate assembly. Deluxe, heavy-gauge chassis in gleaming chrome and black. With wire and solder; instructions. Less cover, below.  $8\frac{1}{4} \times 14 \times 9"$ . For 110-125 volts, 60 cycle AC. Shpg. wt., 39 lbs.

83 YU 618. No Money Down. ONLY.....**84.50**

83 YX 779. Metal Cover for Above. 5 lbs. ONLY.....**6.50**

#### SPECIFICATIONS

**Rated Power Output:** 70 watts continuous sine wave power.

**Frequency Response:**  $\pm 0.5$  db, 15 to 30,000 cps at full rated power output.

**Distortion:** Harmonic, 0.5%; IM, 0.5% at full rated output.

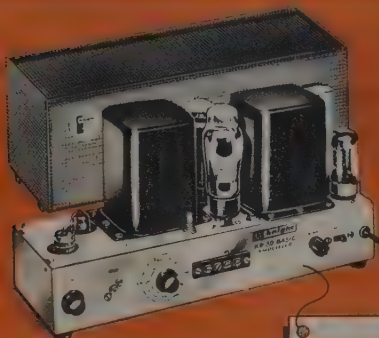
**Input Sensitivity:** 0.54 v. for full power.

**Hum & Noise:** 90 db below full rated output per channel.

**Controls:** Level A; Level B; Stereo-Monophonic Switch; Monophonic Gain Balance Test Switch; Off-On.

**Output Impedances:** 4, 8, 16 and 32 ohms, each channel.

**Tubes:** 2—EF86/Z729/6267; 2—ECC 83/12AX7/7025; 4—EL37; 2—GZ34/5AR4 rectifier.



Beautiful Professional Styling—Gleaming Chrome-Plated Chassis

ONLY  
**\$44.50**

**NO MONEY DOWN**

Custom-Quality Hi-Fi at Real Savings

### KB-30 35-Watt Basic Amplifier Kit

A deluxe, single-channel basic amplifier of superlative quality—the ideal "add-on" basic for stereo conversion. Delivers 35 watts of virtually flawless continuous power output. Incorporates variable damping control, with calibrated scales for each speaker impedance, to assure optimum matching to any speaker. Has custom-quality output transformer, balance control in critical stages, printed circuitry for ease of assembly. Less cover, below. Size,  $7\frac{1}{4} \times 14\frac{1}{2} \times 4\frac{3}{4}"$ . For 110-125 v., 60 cycle AC. Wt., 21 lbs.

83 YU 617. ONLY.....**44.50**

83 YX 794. Metal Cover for Above. Black-and-gold styling.  $2\frac{1}{2}$  lbs. ONLY **4.95**

#### SPECIFICATIONS

**Rated Output:** 35 watts continuous sine wave power.

**Response:**  $\pm 0.5$  db from 15 to 30,000 cps at rated output.

**Distortion:** Harmonic, less than 0.5%; IM, less than 0.5% at rated output

**Hum & Noise (inputs shorted):** 90 db below full rated output

**Controls:** Variable Damping; Balancing Adjustment; Level Set Adjustment; Off-On Switch.

**Tubes:** EF86/Z729/6267, ECC 83/12AX7, 2—EL37; GZ34/5AR4 cathode-type rectifier.



integrated control center features outstanding versatility



every desirable feature for stereo or monophonic sound

## Model KP-50 Deluxe Stereo Preamplifier Kit

### SPECIFICATIONS

**Frequency Response:**  $\pm \frac{1}{2}$  db, 7-120,000 cps through tuner input;  $\pm \frac{1}{2}$  db, 10-80,000 cps through mike input (1-volt output). **Harmonic Distortion:** Less than .25%, 20-20,000 cps at 1 v. **IM:** Less than 0.7% at 1-v. output. **Hum and Noise:** -80 db at 1 v. (Tuner input). **Stereo Inputs (5 Pairs):** Mag. Phono (RIAA), Cer. Phono (RIAA), Tape Head (NAB), Tuner (Flat), Aux. (Flat) **Mono Inputs:** G.E., Pickering and Cer. Phono (choice of RIAA, FFRR, Eur, 250-cps, NAB, or AES); Mike (Flat). **Input Sensitivity for 1-Volt Output Per Channel:** Tape Head and Mag. Phono (2.5 mv), Cer. Phono (70 mv), Tuner (150 mv), Aux. (500 mv). **Bass and Treble Controls:** Boost or attenuate 15 db at 20 cps and 20,000 cps respectively. **Crosstalk Between Channels:** -45 db or better. **Tubes:** 2-12AY7; 4-ECC82/12AU7.

- Compact—Easily Fits Standard Bookshelves
- DC on Filaments Eliminates Hum and Noise
- Loudness Control Maintains Tonal Balance

Here, in easy-to-build kit form, is one of the finest preamplifiers available today. An outstanding example of advanced engineering techniques, it incorporates every desirable feature imaginable—yet is offered at far less than the cost of comparable factory-wired units. Provisions have been made for every source of sound—simply flick a switch to choose any desired input. Never any need to change cables. In addition, 6 monophonic equalization positions prevent obsolescence of existing collections of older LP's. Dual-concentric, clutch type controls are used for bass, treble, and level controls. Utilizes low-noise, premium-type 12AY7 tubes in the input stages, DC on all filaments, shielded power supply, etc., to minimize hum and noise. Also contributing to its top-quality performance are: special, LC-type scratch filter; rumble filter; cathode-follower outputs; and 2—AC convenience outlets. Heavy steel, cabinet is luxuriously styled in attractive Cordovan Gray—solid extruded aluminum panel in Desert Beige and Sand Gold. Complete with wire and solder; easy-to-follow, step-by-step instructions.  $4\frac{1}{8}$  (plus  $\frac{5}{8}$ " legs) $\times 13\frac{1}{4}\times 7\frac{3}{4}$ ". Knobs extend  $1\frac{1}{4}$ ". For operation from 110-125 volts, 60 cycle AC. Shpg. wt., 14 lbs.

83 YX 768. No Money Down. ONLY..... 64.95

unsurpassed for hi-fi quality at low cost

## Model KM-15 12-Watt Hi-Fi Amplifier Kit

Economy amplifier, featuring push-pull EL84 output tubes, 15 db of feedback for low distortion, in-audible noise and hum. Has tuner and phono inputs, separate bass and treble controls. Ideal for economical conversion to stereo. Complete with all parts, wire and solder, and instructions. Smart black finish. Less cover below. Size,  $5\times 9\frac{1}{2}\times 6$ ". For operation from 110-125 volts, 60 cycle AC. Shpg. wt.,  $7\frac{1}{4}$  lbs.

83 Y 784. ONLY..... 19.95

**METAL COVER.** For above. Gray and chrome.  $5\times 9\frac{1}{2}\times 6$ " with amplifier. Shpg. wt., 2 lbs.

83 Y 783. ONLY..... 3.95

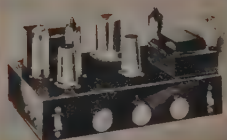
### SPECIFICATIONS—

**Power Output:** 12 watts continuous Sine Wave Power. **Response:**  $\pm 1$  db, 30-15,000 cps at full rated output. **Harmonic Distortion:** 1% at full rated power. **Hum & Noise:** 65 db below full rated power (tuner input). **Sensitivity:** Tuner—1 v., phono—10 mv for full rated power. **Controls:** Bass and Treble, Tuner-Phono Switch, Volume Control, Power Off-On Switch.



Gray and Chrome Case Optional

ONLY  
\$19.95  
NO MONEY DOWN



STEREO HI-FI



professional quality at amazingly low cost

## KP-70 Stereo Tape Record-Playback Preamp Kit

- Separate, Dual-Channel Recording and Playback Preamps
- Provides "Sound-on-Sound" and "Echo" with 3-Head Transports
- VU Meters—A-B Monitoring—Adjustable to Match Any Heads

packed with "plus" features like these:

Actually in a class with professional-type equipment costing far more, the sensational Knight-Kit KP-70 has gained nation-wide recognition. Ultra-versatile in design, it provides highest quality recording as well as playback performance with any stereo tape transport (ideal for use with the Knight Tape Transports on opposite page). Boasting an array of deluxe features, it incorporates concentric clutch-type microphone and auxiliary recording level controls to permit individual channel regulation plus master gain adjustment. Also provides mixing of mike and aux inputs on each channel. Accurate VU meters read recording level. 6-position selector switch chooses left channel, right channel or stereo record and playback functions—permits A-B switching to compare left and right channel recorded material, etc. Also incorporated are concentric clutch-type controls for playback volume and balance.

When used with 3-head transports, convenient front panel switch allows "sound-on-sound" multiple recording—also permits "echo-chamber" effect to be added during recording. Individual adjustment is provided for bias and erase voltages and record head current on each channel—assures exact match to any heads. Has equalization switch on front panel for  $7\frac{1}{2}$  and  $3\frac{3}{4}$  ips speeds. Equalizes in both playback and record for full response—even at  $3\frac{3}{4}$  ips! Also has A-B monitor switch for comparing tape with source. Printed circuitry assures easy assembly. Extruded aluminum panel in Desert Beige and Sand Gold. Complete with cables, wire and solder; less case, below.  $4\frac{1}{8}$  (plus  $\frac{5}{8}$ " legs) x  $15\frac{1}{2}$  x 9". Knobs extend  $1\frac{1}{4}$ ". For 110-125 v., 60 cycle AC. Shpg. wt., 15 lbs.

83 YU 916. For 3-Head Transports. No Money Down. ONLY.....89.95

20 YU 278-2. For Use With 2 or 3-Head Transports. ONLY..... 89.95

35 DU 812. Factory Wired. For 2 or 3-head transports. NET..... 139.95

83 YX 936. Metal Case. for KP-70. Shpg. wt. 5 lbs. ONLY.....4.95

**SPECIFICATIONS:** (Independent of transport)—Frequency Response:  $\pm 2$  db, 20-20,000 cps. Harmonic Distortion: less than 0.3% at maximum recording level; playback sections, less than 0.3% at 2 volts output. Input Sensitivity (for maximum record level): 1 mv at microphone inputs; 100 mv at auxiliary inputs. Equalization: NAB at  $7\frac{1}{2}$  ips (playback). Internal adjustment permits matching any recording head to produce NAB equalized tapes. Separate equalization for  $3\frac{3}{4}$  ips recordings. Bias Oscillator: 70 kc. (Voltage or current internally adjustable to match any head). Record Head Current: Adjustable by calibrated control to match any head. Tubes: 4-12AX7; 4-12AT7; 12AU7. (Specifications with Knight KN-4000 Tape Transport)—Frequency Response:  $\pm 3$  db, 30-15,000 cps at  $7\frac{1}{2}$  ips;  $\pm 3$  db, 30-10,000 cps at  $3\frac{3}{4}$  ips. Hum and Noise: Better than 45 db below peak recording level.



**"Sound-On-Sound"**. Special switching permits duplicating recordings from channel to channel—adding another "part" each time.



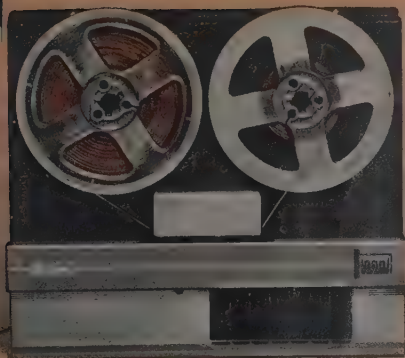
**"Echo Chamber"**. Professional type echo chamber effect may be switched in at any time to enhance your recordings. No external cable patching is necessary.



**VU Meters.** High-quality VU meters provide accurate readings of both record and playback level on each channel at all times. 2-color scales are calibrated —20 to +3 db.

**"FOR TOPS IN TAPING"**... See listing in this section of the Knight-Kit Model KA-95 70-Watt Stereo Amplifier—it's ideal for use with the deluxe tape components on these pages!



**KN**  
4000

**ONLY**  
**\$134<sup>50</sup>**  
**NO MONEY**  
**DOWN**

### Knight KN-4000 Deluxe Pushbutton Tape Transport

Enjoy the many taping advantages this professional-quality transport provides—separate 4-track erase, record, and playback heads; three heavy-duty 4-pole motors; and 7 convenient “keyboard” controls. When used with the Knight-Kit Model KP-70, you can record 4-track stereo and monophonic tapes, as well as a variety of special effects—sound-on-sound, echo, add-a-track, etc. In addition, the separate playback head lets you monitor the tape while recording. This precision-built transport also has: DC dynamic breaking; digital tape counter; automatic shut-off; standby control; 2-speed operation,  $7\frac{1}{2}$  and  $3\frac{3}{4}$  ips. Desert Beige and Sand Gold styling,  $13\frac{1}{2} \times 15\frac{1}{4} \times 7$ ". For 110-120 v., 60 cycle AC. Made in U.S. Shpg. wt., 23 lbs.

35 DU 709. No Money Down. ONLY ..... 134.50

**PORTABLE CARRYING CASE.** Durable wood case for above Knight KN-4000 Transport, and Knight-Kit Model KP-70 Recording Preamp (opposite page). Fabrikoid cream and brown finish.  $20 \times 16\frac{1}{2} \times 11\frac{1}{2}$ ". 15 lbs.

35 DX 783. ONLY ..... 24.95

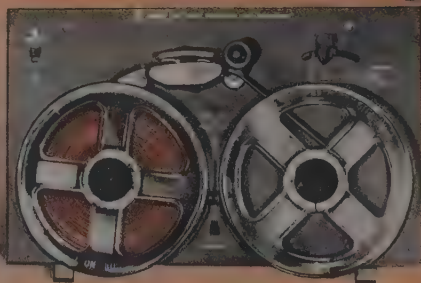
Exclusive Allied Value!

### Complete Stereo Tape Recording Outfit

This top-value outfit gives you everything needed for complete 4-track stereo and monophonic recording and playback. Just assemble the easy-to-build KP-70 preamp kit, and you're ready to make outstanding professional-type recordings.

The Knight-Kit Preamp, with two VU meters and concentric level controls, lets you mix mike and auxiliary inputs—makes channel balancing and record level setting precise and easy. Mikes are cardioid-type, ideal for stereo; have 10-ft. cord, and plug. Headset plugs into monitor inputs on preamp. Accessory Kit contains: splicer, cleaning cloth, clips, labels, head cleaner, editing book, splicing tape, and tape threader. Shpg. wt., 39 lbs.

20 HF 280. ONLY ..... 214.95

**KN**  
4200

**ONLY**  
**\$79<sup>95</sup>**  
**NO MONEY**  
**DOWN**

### Knight Model KN-4200 Compact Tape Transport

Compact stereo tape transport that's ideal for custom-installations. Has a 4-track laminated record/play head, and erase head. Plays through any amplifier's tape head inputs. In conjunction with Knight-Kit KP-70 (listed on preceding page), the KN-4200 can also be used to record stereo and monophonic 4-track tapes. The many carefully engineered features that are incorporated make the KN-4200 an exceptional value at this economy price: dynamically balanced flywheel; dependable, heavy-duty motor; tape lifter; pushbutton speed change from  $7\frac{1}{2}$  to  $3\frac{3}{4}$  ips; and a single, easy-to-operate lever function control. Styled in Matte Brown Size,  $9\frac{1}{2} \times 15\frac{1}{2} \times 5\frac{3}{4}$ ". For operation from 110-120 volts, 60 cycle AC. Made in U.S. Shpg. wt., 13 lbs.

35 DU 726. No Money Down. ONLY ..... 79.95

**OPTIONAL HEAD.** Converts KN-4200 to 3-head unit. With hardware and instructions. Wt., 6 oz.

90 R 877. ONLY ..... 16.95

**CARRYING CASE.** Similar to case at left, but for KN-4200 and KP-70. Shpg. wt., 15 lbs.

35 DX 724. ONLY ..... 21.95



### YOU GET EVERYTHING!

KNIGHT KN-4200 TRANSPORT 79.95

KNIGHT-KIT KP-70 STEREO RECORD/PLAY PREAMP KIT (Less Case) 89.95

"BRUSH" STEREO HEADSET 23.37

TWO E-V 728 MIKES WITH DESK STANDS 28.82

THREE 1200' 7" REELS OF KNIGHT KN-15 TAPE 5.13

TAPE ACCESSORY KIT 6.45

TOTAL CATALOG PRICE 233.67

YOURS FOR ONLY 214.95

YOU SAVE

**\$18<sup>72</sup>**

# knight-kit

A PRODUCT OF ALLIED RADIO

Dependable Citizens Band communication for only \$39.95  
... amazing selectivity for this low price!

## CITIZENS RADIO

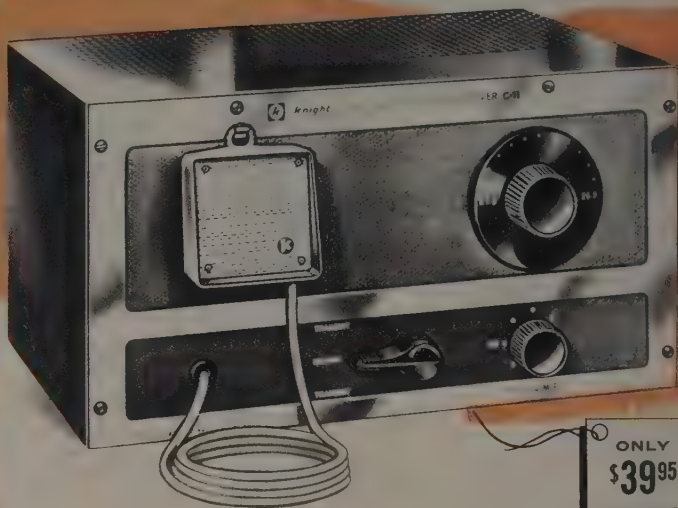
### CITIZENS BAND TRANSCIVER KITS

**IT'S EASY TO BUILD YOUR OWN LOW-COST 2-WAY RADIO** ... Every detail is engineered for maximum building ease. You're guided through each step of the fun-filled assembly by the world's finest "do-it-yourself" instructions.

**NO LICENSE EXAMINATION REQUIRED.** Any U.S. Citizen, 18 years of age or older, can enjoy the countless benefits of Citizens Radio simply by applying to the FCC for an operating permit. No license examination or other qualifications are required!

**MONEY-BACK GUARANTEE.** The Knight-Kit you purchase must meet with your complete satisfaction, or your purchase price will be refunded.

**EASY TERMS.** Allied's sensational Credit Fund Plan actually puts you "on the air" for no money down! See order blank for details.



ONLY  
**\$39.95**  
NO MONEY  
DOWN

## Model C-11 Citizens Band Transceiver Kit

- Everything You Need to Go On the Air for Only \$39.95
- Full 5-Watt Transmitter—Super-Regenerative Receiver
- Receiver Manually Tunes All 22 Citizens Band Channels

A super-value Citizens Band transceiver kit that puts dependable two-way radio communication within reach of any U.S. citizen, 18 years of age or older. Exceptionally low in cost, this unit incorporates an efficient 5-watt transmitter and a manually tunable, 22-channel super-regenerative receiver. A handy intercom-type switch selects "Transmit" and "Receive" functions. Switch incorporates two "Transmit" positions—one with automatic spring-return to "Receive" position, the other to lock unit in "Transmit." Also has Off-On-Volume control.

The C-11 comes complete with everything you need to go on the air—mike, wire-type doublet antenna, transmitting crystal (choice of channels 1-22, specify when ordering). Operates on 110-125 v., 60 cycle AC. For 12-v. DC mobile operation, requires power supply, listed below. For 6-v. DC mobile operation, use power supply listed on opposite page under Model C-27 transceiver. Size,  $6\frac{1}{8} \times 11\frac{1}{8} \times 7\frac{1}{4}$ ". Shpg. wt., 12 lbs.

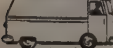
83 Y 713-2. No Money Down. ONLY \$39.95

83 Y 724. Mobile Mounting Bracket.  
For under-dash mounting of C-11 in cars. Shpg. wt., 3 lbs. ... ONLY 4.95

83 Y 937. Mobile Power Supply Kit.  
For mobile use of C-11 on 12 volts DC. Shpg. wt., 5 lbs. ONLY \$9.95

### UNLIMITED APPLICATIONS

#### AUTO-TO-HOME



#### TRUCK-TO-DISPATCHER

#### WORK CREW-TO-FOREMAN



#### SHIP-TO-SHORE



#### REPAIR SHOP-TO-SERVICE CAR



#### OFFICE-TO-WAREHOUSE



#### FARMING USES





finest Citizens Band 2-way radio—bar none!

22-channel tunable receiver with provision for 2-channel crystal reception . . . dual-conversion superhet for highest selectivity

## Model C-27 Deluxe Transceiver Kit



Low-Silhouette  
Styling

Intercom-Type  
Press-to-Talk  
Operation

ONLY  
**\$79<sup>95</sup>**  
NO MONEY  
DOWN

- Selective, Dual-Conversion Superhet—Only 3 kc Wide at 6 db Down
- Versatile—Manually Tunes All 22 Channels

- Highly Sensitive—Better than  $\frac{1}{2}$   $\mu$ v for 10 db Signal-to-Noise Ratio
- Provision for 2-Channel Crystal Reception

The first deluxe-quality, genuine *dual-conversion* superheterodyne Citizens Band transceiver to be offered in easy-to-build, money-saving kit form! Amazingly sensitive and selective, it features a superlative array of outstanding features. Transmitter operates at the maximum legal power input of 5 watts—transmits on any two crystal-controlled channels (one crystal is supplied with kit). In addition to 22-channel continuous manual tuning, a handy switch permits changeover to lock-in crystal reception—has provision for two optional receiving crystals (listed below). Channel switch on front panel provides instant selection of desired transmitting and receiving crystals.

Automatic noise limiter cuts interference—continuously variable squelch control provides silent standby operation. The C-27's sensitivity is better than  $\frac{1}{2}$   $\mu$ v for 10 db S/N ratio. Super-selective, its adjacent channel rejection is a full 30 db—there's never any adjacent channel interference, even from strong signals.

Features convenient, press-to-talk intercom-type operation—built-in speaker also serves as mike. Also accepts accessory press-to-talk mike or telephone-type handset, listed below. Has attractive gray, styrene case with black metal cover and contrasting white grille. Handsome "3-D" panel is edge illuminated. The C-27 also features: voltage-regulated, drift-free oscillators; pre-aligned IF transformers; dependable printed circuitry; 7 dual-purpose and 2 single-purpose tubes, VR and rectifier. With 1 transmitting crystal (*channels 1-22—specify*), wire-type doublet antenna, wire and solder. For mobile use, requires power supply listed below. With built-in power supply for 110-125 v., 60 cycle AC.  $5\frac{1}{2} \times 12\frac{1}{8} \times 15\frac{1}{4}$ ". Shpg. wt., 20 lbs.

83 YU 712-2. No Money Down. ONLY.....79.95

83 YY 769. Optional Receiving Crystals. 22 channels—specify. (C-27 accommodates 2). 3 oz. EACH.....1.95

83 YY 921. Optional Extra Transmitting Crystal. 22 channels—specify. Shpg. wt., 3 oz. EACH.....1.95

83 Y 714. Mobile Mounting Bracket. For C-27. Rubber lined. Wt., 4 lbs. ONLY.....5.95

83 Y 723. 6-12 V. Mobile Power Supply Kit. For C-11 and C-27. Wt., 6 lbs. ONLY.....12.95

### ANTENNAS FOR C-11 AND C-27

A 83 YX 729. Back-of-Transceiver Whip Antenna. 3-ft. length. Shpg. wt., 1 lb. ONLY.....5.95

C 78 CZ 182. Mobile Body-Mount Antenna. 102" stainless steel whip, spring, swivel base. Less cable. Wt., 5 lbs. ONLY....6.95

B 78 CZ 189. Mobile Bumper-Mount Antenna. 102" stainless steel whip and mounting strap. Less cable. Wt.,  $4\frac{1}{2}$  lbs. ONLY...10.56

D 78 CZ 190. Coaxial Antenna. Mounts on  $1\frac{1}{4}$ " TV mast. Less cable, mast. Wt., 5 lbs. ONLY...14.95

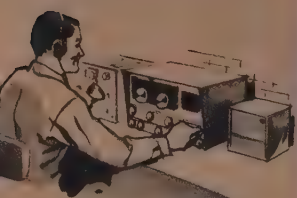


83 Y 719. Press-to-Talk Mike. Ceramic press-to-talk mike for C-27. Supplied complete with coil-cord. Shpg. wt., 1 lb. ONLY.....9.95

83 Y 722. Telephone Handset. Cuts out C-27's speaker when lifted from cradle, supplied. Comes with coil-cord. Shpg. wt., 2 lbs. ONLY...19.95



**Build your Own Quality  
AMATEUR GEAR**



**PROVEN SUPERIORITY.**  
Expert engineering, advanced features, and premium-quality component parts all contribute to the superior performance of Knight-Kit Amateur equipment . . . and you'll be proud of your Knight-Kit's smart, professionally-styled appearance—your assurance of top trade-in value.

**MONEY BACK GUARANTEE.** Any Knight-Kit Amateur equipment you purchase must meet with your complete satisfaction, or your entire purchase price will be refunded.

**ALLIED'S CREDIT FUND PLAN.** Get more fun from Ham radio with the latest Knight-Kit station gear. Use Allied's CREDIT FUND PLAN . . . no money down . . . up to 24 months to pay.

**NEW**



ONLY  
**\$49<sup>95</sup>**  
NO MONEY  
DOWN

*Ideal for Novices and Technicians*  
**T-60 60-Watt AM-CW Transmitter Kit**

- Easy-to-Build "First Rig" for Novices or Technicians—Great for Advanced Hams, Too!
- Covers the 80 Thru 6 Meter Ham Bands with 60 Watts Input

Here's a compact, amazingly versatile AM-CW transmitter that's sure to rate a place in *your* Ham shack. Perfect as an easy-to-build "first rig" for novices and Technicians, this efficient transmitter will also serve even the most advanced Amateur as an ideal "standby" unit, or a small, lightweight, portable transmitter for field day work, vacation use, etc. Providing single-knob band-switching coverage of the Amateur 80 through 6 meter bands, the T-60 operates at a power input of 60 watts on CW and peak carrier-controlled AM.

Controlled-carrier screen modulation allows the final to run at only 1/4 of the full CW input power when there is no modulation—permitting almost 100% of the CW input to be used on AM peaks. Bias-resistor keying provides chirp-free CW—no high-voltage at key! Unit can be crystal or VFO controlled. Front panel meter reads relative RF output—permits easy tuneup (all stages are simply tuned for maximum meter reading). Has silicon rectifier power supply; terminals for operating antenna relay. Pi-coupler output tunes out large amounts of reactance; matches antenna impedance between 40 and 600 ohms.

Controls: Gain, Drive Tune, Band, Function (Off, Tune, AM, Standby, CW), Plate Tune, Load. Tubes: 6HF8 Osc./Buffer; 6DQ6B Final; 12AX7 Mike Amp.; 6DR7 Mod. In gray cabinet, 5x12 1/4 x 6 5/8". With all parts, instructions. Less key, mike, crystal. For 110-125 v., 60 cycle AC. Shpg. wt., 16 lbs.  
83 YX 294. *No Money Down. NET* . . . . . **49.95**

**V-44 Self-Powered VFO Kit**

- Designed for Extremely High Stability
- Can Be Directly Keyed for Break-in Operation

A deluxe, high-quality VFO kit at an incomparably low price. Calibrated for 80, 40, 20, 15, and 10 meter Ham bands; output on 80 and 40 meters. 40-volt output on 80 meters and 20-volt output on 40 meters is more than adequate to excite oscillator stage of any transmitter. Drift-free Clapp oscillator employs 1% silver mica capacitors. Oscillator tank coil is wound on heavy ceramic form; has air dielectric padders. Power supply is mounted above oscillator to keep heat from frequency determining circuits. Has "Calibrate" switch position for zeroing VFO to receiver; vernier planetary drive mechanism; front panel key jack. Size, 8 3/4 x 6 1/2 x 5 3/4". With all parts, wire and solder, easy-to-follow instructions. For 110-125 v., 60 cycle AC. Shpg. wt., 9 1/2 lbs.  
83 Y 725. *No Money Down. ONLY* . . . . . **29.95**



ONLY  
**\$29<sup>95</sup>**  
NO MONEY  
DOWN



**Low-Cost 100-Kc Crystal Calibrator Kit**

Low-cost frequency standard for Knight-Kit or other receivers. Gives marker every 100 kc up to 54 mc. May be powered by R-100 or R-55 receivers—or any source of 6.3 v. at 0.15 amp and 150-300 v. DC at 3-6 ma. Has trimmer for zero-beating with WWV; on-off switch. Size, 3 1/2 x 2 1/2 x 1 1/2". Complete with wire and solder. Shpg. wt., 12 oz.  
83 Y 256. *ONLY* . . . . . **10.95**



10 RECEIVER SHOWN WITH  
OPTIONAL S-METER ACCESSORY



a "dx-getting"  
favorite with  
Hams everywhere



S-8 SPEAKER

*packed with professional features for the advanced Amateur*

## Famous R-100 Amateur Communications Receiver Kit

- Better Than  $1\frac{1}{2}$   $\mu$ v Sensitivity
- Bandspread on 80-10 Meter Bands
- Selectivity, 300 cps to  $4\frac{1}{2}$  kc
- Exclusive Knight-Kit Printed Circuit Bandswitch
- Built-In Q Multiplier
- 540 kc to 30 mc General Coverage
- Exalted BFO for SSB Reception

ONLY

\$99.95

NO MONEY  
DOWN

An outstanding achievement in communications receiver engineering, this superb kit has gained phenomenal acceptance—there is no other receiver like it! Has all the features, selectivity and sensitivity of high-priced commercial units. Use of printed circuitry throughout assures stable, reliable operation and reduces assembly time—it's an unsurpassed value!

Covers 540 kc to 30 mc in 4 ranges; calibrated electrical bandspread on all Ham bands from 80-10; slug-tuned Hi-Q coils; continuous VR tube-regulated B+ applied to HF oscillator lets you switch from standby receive with no drift; built-in Q-multiplier peaks desired signal or nulls interference (60-db notch really *keeps out interference*); delayed AVC; noise limiter; provision for "building in" crystal calibrator (left).

Exceptional sensitivity keynotes this top-notch receiver—better than  $1\frac{1}{2}$   $\mu$ v sensitivity for a 10:1 signal-to-noise ratio, *even on 10 meters*. On 40 and 80 meters, sensitivity is actually  $\frac{1}{2}$  to  $\frac{3}{4}$   $\mu$ v for the same signal-to-noise ratio. Broadcast band sensitivity is 4  $\mu$ v. Selectivity continuously variable from 300 cps to  $4\frac{1}{2}$  kc at 6 db down. Exalted BFO injection provides high-quality SSB reception.

Just a little wiring experience and a few ordinary tools are required for anyone to construct this fine receiver. Unique plug-in printed circuit bandswitch, two printed circuit boards, and step-by-step instructions with giant feature diagrams make error-free assembly an easy matter—you can't go wrong!

Precision-tolerance coils assure minimum alignment time. As coaxial and screw-terminal antenna connectors for 300-ohm lines. Gray metal case; chrome trim and rack knobs. Size,  $9\frac{5}{8} \times 16\frac{1}{2} \times 10\frac{3}{4}$ ". Supplied complete with case, tubes, all parts, wire, solder and instructions. S-8 speaker and S-meter kits (above, right). For 110-5 v., 60-cycle AC. Shpg. wt., 31 lbs.

YU 726. Own It Now! No Money Down. ONLY. 99.95

**MODEL S-8 SPEAKER KIT.** Matching 4" speaker for R-100. Specially designed cone peaks voice frequencies. In gray metal cabinet with chrome trim. Impedance, 8 ohms.  $6\frac{7}{8} \times 6\frac{5}{8} \times 5\frac{5}{8}$ ". Shpg. wt.,  $3\frac{1}{4}$  lbs. 83 Y 728. ONLY. 9.95

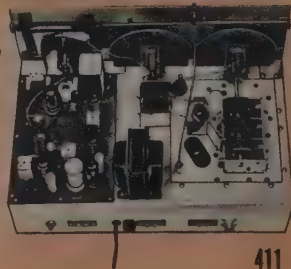
**M-5 S-METER KIT.** For R-100. Calibrated in 9 "S" units of approximately 6 db each. Reads to +20 db over S9. With wire and solder. Shpg. wt., 12 oz. 83 Y 727. ONLY. 12.95

### See Crystal Calibrator Accessory at Left

**SPECIFICATIONS.** Sensitivity: Better than  $1\frac{1}{2}$   $\mu$ v for 10 db s/n ratio; 4  $\mu$ v on BC band. Variable Selectivity: Q multiplier, in Peak position, provides continuously adjustable IF bandpass from 300 cps to  $4\frac{1}{2}$  kc at 6 db down; provides 60 db notch in Null position for rejection of interference. Q Multiplier: Choice of peak or null across IF bandpass. Image Rejection: 540-1650 kc—80 db on low end, 40 db on high; 1.6-4.6 mc—68 db on low end, 40 db on high; 4.4-12.4 mc—30 db on low end, 25 db on high; 12-30 mc—40 db on low end, 20 db on high end. Intermediate Frequency: 455 kc. Tube Complement: 6BZ6 RF Amplifier, 6BH6 Mixer and HFO, 6AZ8 1st IF Amplifier, 6AZ8 2nd IF and 1st Audio, 6BG7 Detector-AVC-ANL, 6AW8A BFO and Audio Output, ECC83/12AX7 Q Multiplier, 5X4 Full-Wave Rectifier and OB2 Voltage Regulator. Controls: Main Tuning, Band-spread Tuning, Band Selector, Q-Multiplier Selectivity, C-Multiplier Tune, Peak-Off-Null, BFO Pitch, RF Gain, AF Gain, BFO-MVC-AVC-ANL, Off-Stabby-Recv-Cal, antenna trimmer and headphone jack. Output Impedance: 8 ohms, for PM speaker.

### COMPARABLE TO UNITS COSTING MUCH MORE!

You'll marvel at the features of this deluxe unit, designed to meet the most critical demands of the seasoned Amateur.





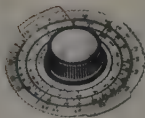
*finest grid dip meter at this low, low price . . .  
extended frequency coverage—1.5 to 300 mc . . .  
convenient, one-hand operation*



ONLY  
**\$2295**

NO MONEY  
DOWN

**CHECK THESE FEATURES**



Adjustable  
Hairline  
Cursor



Color-Coded  
Coils Match  
Dial Ranges

Features High Grade, Molded Coil Socket—  
High Stability Across Each Range

**G-30 Grid Dip Meter Kit—A Ham Favorite**

*Use it to measure rf resonance . . . also serves as signal generator, wavemeter, etc.*

You'll find hundreds of uses for this invaluable instrument in and around your Amateur station. It not only serves as a grid dip oscillator to determine the frequency of resonant circuits, but as an oscillating detector, signal generator, and absorption wavemeter. Covers 1.5-300 mc in 6 overlapping ranges. The finely calibrated dial, with its movable hairline cursor, allows extremely precise setting and highly accurate readings on any segment of its frequency range. You'll wonder how you ever got along without it! Use it for receiver alignment, determining the exact length of transmitting and receiving antennas, adjustment of wave traps, determining inductance and capacitance, finding parasitic oscillations, adjusting antenna matching stubs, etc.

Ranges are color-coded to match coils. Has undamped meter movement for quick response and variable sensitivity control for optimum grid current adjustment. Stable oscillation—entire band may be tuned with one adjustment of gain control. It's small—it's light—it's the handiest grid dip meter available!

High-grade molded socket withstands rugged use—holds plug-in coils securely. Phone jack permits use as modulation monitor and regenerative detector. 6AF4A oscillator; selenium rectifier. Size, 6 $\frac{3}{8}$ x3 $\frac{1}{4}$ x1 $\frac{1}{8}$ ". Includes plastic case with 6 coils, all parts. For 110-125 v. 50-60 cycle AC. Shpg. wt., 2 lbs.

83 Y 721. No Money Down. ONLY . . . . . 22.95



ONLY

**\$695**

**Model Z-52 SWR and Z-Bridge Kit**

Achieve peak antenna efficiency by adding this popular SWR and Z-Bridge kit to your Ham shack! Measures SWR from 1 to 150 mc—also indicates impedance on frequencies up to 100 mc. Use your own VOM as a null indicator. Has coaxial connectors. Can be used with 20-400 ohm lines. Dial gives direct impedance reading. Has 1% precision calibrating resistor. 2 $\frac{1}{2}$ x3 $\frac{1}{2}$ x4". With chart for converting meter readings to SWR, wire and solder. Less meter. Wt., 1 $\frac{1}{4}$  lbs.

83 Y 253. ONLY . . . . . 6.95



ONLY

**\$495**

**Transistorized Code Practice Kit**

Sharpen up on your CW with this advanced-design, low-cost code practice oscillator kit. Utilizing transistor circuitry, this popular kit is powered by a single penlight cell! Current consumption is amazingly low—one battery operates unit for months. 500 cps tone. Has output jacks for standard headphone tips; screw type terminals for key. Housed in bakelite case with aluminum panel. With all parts, battery. Less phones and key, below. 2 $\frac{3}{8}$ x3 $\frac{3}{4}$ x1 $\frac{1}{2}$ ". Shpg. wt., 1 lb.

83 Y 239. ONLY . . . . . 4.95

59 Y 112. 1000-Ohm Headphone. Shpg. wt., 1 $\frac{1}{4}$  lbs. NET . . . . . 1.07

77 S 908. Practice Key. Shpg. wt., 8 oz. NET . . . . . 69c



# The Big-Value Communications Receiver for Everyone!



featuring international shortwave coverage . . . and full, calibrated electrical bandspread on 80-10 meter Ham bands, PLUS 6 METERS



Complete  
With  
Cabinet  
& Built-In  
Speaker

ACTUAL SIZE DIAL SECTION

## Famous Knight-Kit R-55 Receiver Kit

For Ham Technicians & Beginners . . . For SWL's

- Covers 530 kc to 36 mc Plus 47-54 mc 6-Meter Ham Band
- Two 1650-kc IF Stages for High Sensitivity and Excellent Image Rejection on All Tuning Ranges
- Two Ganged Tuning Capacitor for Separate Tuning of Oscillator and Mixer Stages

ONLY

\$67<sup>50</sup>

NO MONEY  
DOWN

Whether you're a beginning Ham looking for low-cost Ham-band coverage, a technician in need of a sensitive 6-meter receiver, or an "armchair adventurer" seeking 'round-the-world shortwave listening thrills—the R-55 is the one for you! Engineered for easy, fun-filled assembly and years of dependable performance, this surprisingly low-priced set features two 1650-kc IF stages with remarkably high sensitivity and excellent image rejection. In addition to providing continuous coverage from 530 kc to 36 mc (including the AM broadcast band plus complete international shortwave tuning), it includes 47-54 mc VHF for full-scale 6-meter coverage.

Using the R-55 is a pleasure—main tuning and bandspread controls are "yoke-wheel-loaded" for smooth, effortless operation. Extra-large dial scales are accurately calibrated—edge-illuminated for easy reading. Has electrical bandspread on all Ham bands from 80-6 meters, with individual direct reading dials on each band. Special modular coil assemblies provide greater ease of assembly and improved coil-bank shielding.

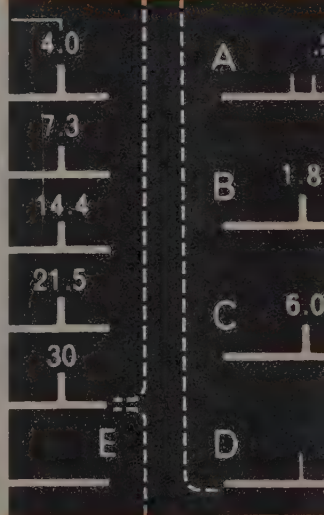
Powered by a transformer-type power supply with filter choke insures excellent voltage regulation. 9 controls include AVC to reduce fading and blasting, Noise Limiter, BFO for CW and SSB reception, and Standby switch. Provision for building-in optional Knight-Kit Crystal Calibrator Kit, (listed separately)—front panel switch has "Calibrate" position. Sturdy gray metal cabinet is charcoal-gray-and-aluminum panel. With wire, solder, easy instructions. 14 1/4 x 11". For 110-125 v., 60 cycle AC. Shpg. wt., 22 lbs.

YU 935. No Money Down. ONLY. . . . . 67.50

Y 256. Crystal Calibrator Kit. Builds into R-55 above. See listing elsewhere in this section for specifications. Shpg. wt., 12 oz. ONLY. . . . . 10.95

ELECTRICAL  
BANDSPREAD  
ON ALL  
HAM BANDS

COMPLETE  
WORLD-WIDE  
SHORTWAVE  
COVERAGE



### 6-METER COVERAGE

Full-scale 47-54 mc tuning provides coverage of Amateur 6-meter band.

# knight-kit

A PRODUCT OF ALLIED RADIO

## LOW-COST, BUILD-YOUR-OWN INSTRUMENTS

**GREATEST SAVINGS** are yours with famous Knight-Kit test instrument kits. You save because *you* do the easy, enjoyable assembly; and because you buy the low-cost way—direct from the manufacturer.

**UNMATCHED QUALITY** is "built-in" to every Knight-Kit instrument. Their expert design and modern circuitry provide the high accuracy and reliability so vital in today's space-age world of electronics.

**PERFORMANCE-PROVEN** Knight-Kit instruments have undergone rigid, comprehensive testing in the field under actual operating conditions—your assurance that the kit you build will provide years of faithful service.

**PREMIUM-QUALITY PARTS** are incorporated throughout every Knight-Kit instrument—many custom-made to our rigid specifications.

**MONEY-BACK GUARANTEE.** Every Knight-Kit instrument kit is guaranteed to meet with your complete satisfaction or your purchase price is refunded in full.

**NO MONEY DOWN** buys any Knight-Kit test instrument(s) on Allied's Credit Fund Plan. Take up to 24 months to pay. Actually increases your buying power up to 50%!

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### A Electronic VTVM Kit

Complete with  
Battery and  
Test Leads

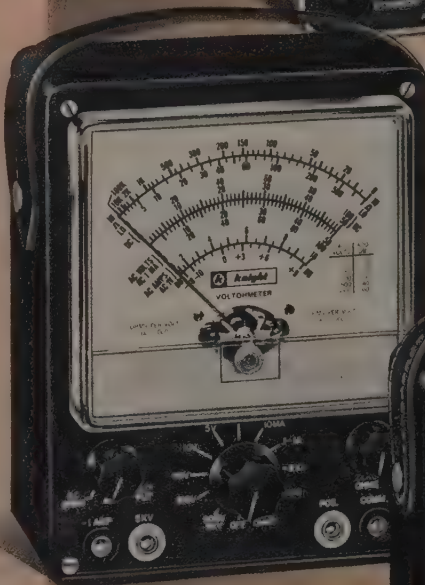
ONLY  
**\$25<sup>95</sup>**  
NO MONEY  
DOWN



easily assembled in just  
an evening's time

ONLY  
**\$16<sup>95</sup>**

### B 1000 Ohms/Volt VOM Kit Complete with Battery and Test Leads



### C 20,000 Ohms/Volt VOM Kit

Complete with  
Battery and  
Test Leads

ONLY  
**\$29<sup>95</sup>**  
NO MONEY  
DOWN



*the number one choice of the  
serviceman, lab technician and hobbyist alike*



## **A Famous-for-Quality Electronic VTVM Kit**

Here's the kind of VTVM performance demanded by the quality-conscious technician, serviceman, and experimenter. You save too, because you do the easy assembly yourself. Ideally suited for use in a wide range of service applications—as well as in the construction of original equipment—the Knight-Kit VTVM offers an array of features usually found only on much costlier factory-built units. In addition to measuring AC rms and DC voltages to 1500 volts, resistance to 1000 megohms, and decibels from -10 to +65, it provides true peak-to-peak AC readings up to 4000 volts. Its response to frequencies from 30 cps to 3 mc makes it an ideal unit for use in testing frequency response of amplifiers, preamps, and other audio units.

A high input impedance—11 megohms—is incorporated to prevent "loading down" the circuit undergoing test. Precision, film-type, 1% multiplier resistors insure high-accuracy readings. Function selector switch includes separate positions for "-DC Volts" and "+DC Volts"—saves time during servicing by permitting polarity of DC test leads to be reversed instantly by a flick of the switch. Chassis consists entirely of a durable, laminated-phenolic printed circuit board for easy, accurate assembly. Complete with 6 test leads (as illustrated), battery, wire and solder, instructions. 7 $\frac{1}{2}$  x 5 $\frac{1}{2}$  x 3 $\frac{1}{4}$ ". For 110-125 v., 60 cycle AC. Shpg. wt., 7 lbs.

83 Y 125. *No Money Down. ONLY*.....25.95

87 Y 504. *Factory-Wired. No Money Down. ONLY*.....35.95

83 Y 664. *Durable Vinyl Cover. For above. 6 oz. ONLY*.....1.00

**SPECIFICATIONS:** DC Voltmeter—Ranges: 0-1.5-5-15-50-150-500-1500 volts. Input Resistance: 11 megohms (1 megohm in probe). DC Accuracy:  $\pm 3\%$  of full scale. AC Voltmeter—RMS Ranges: 0-1.5-5-15-50-150-500-1500 volts full scale. Peak-to-Peak Ranges: 0-4-14-40-140-400-1400-4000 volts. Decibels: -10 to +65 in 7 ranges. Response: 30 cps to 3 mc. AC Accuracy:  $\pm 5\%$  of full scale. Ohmmeter Ranges: 0-1000-10,000-100,000 ohms; 1-10-100-1000 megohms (center scales at 10, 100, 1000, 10,000, 100,000 ohms; 1, 10 megohms). Tubes: 12AU7 twin-triode meter bridge; 6AL5 twin-diode full-wave rectifier.

### **DEPENDABILITY, ACCURACY, AND PERFORMANCE-PROVEN DESIGN**

- Large, Two-Color 4 $\frac{1}{2}$ " Meter Scale—200-Microamp Movement

- Features Low-Range on AC and DC of Only 1.5 Volts Full Scale

- 11-Megohm Input Resistance Minimizes Loading of Circuit Under Test

### **ACCESSORY PROBES**

83 Y 127. *High-Frequency Probe Kit. Extends AC range to 250 mc. Wt., 1 $\frac{1}{2}$  lbs. ONLY*.....3.50

87 Y 509. *Wired. ONLY*.... 5.95

83 Y 126. *High Voltage Probe Kit. Extends DC range to 50,000 v. Wt., 1 $\frac{1}{2}$  lbs. ONLY*.....4.50

87 Y 508. *Wired. ONLY*.... 6.95

*get the most for your test equipment dollar with these quality VOM kits*

## **B 1000 Ohms/Volt VOM Kit**

**READS AC-DC VOLTS, CURRENT & RESISTANCE  
USES 1% MULTIPLIER RESISTORS**

- Precision 400-Microamp Meter Movement
- 1000 Ohms/Volt Sensitivity on AC and DC

Versatile and accurate, this popular 1000 ohms/volt VOM features a big 4 $\frac{1}{2}$ " meter with large, two-color, easy-to-read calibrations. 400- $\mu$ a movement provides 1000 ohms/volt sensitivity—even on AC! Incorporates 1% precision film-type resistors for high accuracy and stability. Color-coded jacks provide easy identification. Convenient db conversion table printed on meter face lets you convert voltage readings to db's at a glance. Has rugged, genuine leather carrying strap.

Exceptionally easy to put together, this economy-priced VOM can be assembled and ready for use in a matter of a few hours. Step-by-step instruction manual is clearly written and illustrated to guide your every move. In addition, a "How to Use" section in the manual helps you take advantage of all the capabilities of this versatile test instrument. Supplied complete with durable bakelite case, battery, test leads, wire and solder. 6 $\frac{1}{2}$  x 5 $\frac{1}{2}$  x 2 $\frac{3}{4}$ ". Shpg. wt., 3 lbs.

83 Y 128. *ONLY*.....16.95

87 Y 526. *Factory Wired. ONLY*.....23.95

**SPECIFICATIONS:** Ranges—AC, DC and Output Volts: 0-1.5-10-50-100-500-1000. Resistance: 0-1000-10,000 ohms and 0-1 megohm (center scale at 60, 150 and 1500 ohms). Current: 0-1-10-100 ma and 0-1 amp AC or DC. Decibels: -20 to +65 in 6 ranges. Meter—Scale Size: 4 $\frac{1}{2}$ ". Sensitivity: 400-microamp full scale. Accuracy: 2%.

## **C 20,000 Ohms/Volt VOM Kit**

**PROVIDES HIGH-ACCURACY MEASUREMENTS  
IN CRITICAL HIGH-IMPEDANCE CIRCUITS**

- 4 $\frac{1}{2}$ ", 50-Microamp Meter—2% Accuracy
- Uses 1% Precision Multiplier Resistors

Carefully engineered to give you the best in VOM performance, this popular Knight-Kit carries the reputation of years of faithful service from literally thousands of units in use in the service field. An indispensable test instrument for the radio-TV serviceman, Amateur, lab technician and experimenter, it soon pays for itself in time and trouble saved. 50- $\mu$ a meter sensitivity provides 20,000 ohms/volt input resistance on DC for highest accuracy measurements—even in high-resistance circuits. For AC voltage measurements, input resistance is 5000 ohms/volt.

All multipliers are 1% precision film-type resistors to assure accurate measurements. Meter is an integral part of the VOM's molded front panel. Single switch provides selection of both function and range. Includes rugged, black bakelite case with leather carrying strap, test leads, batteries, wire and solder, easy instructions. 6 $\frac{1}{2}$  x 5 $\frac{1}{2}$  x 2 $\frac{3}{4}$ ". Shpg. wt., 4 lbs.

83 Y 140. *No Money Down. ONLY*.....29.95

87 Y 527. *Factory Wired. ONLY*.....39.95

**SPECIFICATIONS:** Ranges—AC, DC and Output Volts: 0-2.5-10-50-250-1000-5000. Resistance: 0-2000-20,000 ohms and 0-20 megohms (center scale at 12, 1200 and 120,000 ohms). DC Current: 0-0.1-1-10 ma and 0-1-10 amps. Decibels: -30 to +63 in 6 ranges. Meter—Scale Size: 4 $\frac{1}{2}$ ". Sensitivity: 50-microamp full scale. Accuracy: 2%.



**10-mc DC Lab Scope Kit**  
**with Interchangeable**  
**Vertical Preamplifiers**



Choice of dual-trace,  
wide-band or high-gain  
preamplifiers (available  
separately) . . . or design  
your own . . .

**Money-Back Guarantee**

The Knight-Kit DC Lab Scope is guaranteed to meet with your complete satisfaction or your entire purchase price will be refunded.

**Easy Terms**

The Knight-Kit DC Lab Scope is yours with NO MONEY DOWN on Allied's Credit Fund Plan. Take up to 24 months to pay.

ONLY  
**\$395<sup>00</sup>**

NO MONEY  
DOWN



the only research-quality oscilloscope available  
in kit form . . . for exacting use in electronics  
physics, medicine, industry and education



Precision, reliability, and highest quality construction are vital test-instrument necessities in this modern age of space. In answer to the growing demand for equipment embodying these characteristics, Knight-Kit proudly presents the world's finest DC Lab Scope in easy-to-build kit form! Here, at a cost far below that of comparable factory-assembled units, is performance of a caliber designed to meet virtually any scope requirement.

Affording virtually unlimited flexibility, plug-in interchangeable vertical preamplifiers are employed—a design technique previously used in only the most costly, factory-built lab equipment. For widest response, the CRT deflection plate connections are brought out through the glass—a feature that also eliminates socket capacity and reduces high-frequency drive requirements. Special flat tube face, P-2 phosphor coating and edge-illuminated, calibrated graticule are ideal for photography.

Steel girder construction, printed circuitry and modular assembly assure ease in building, high stability and quick access for maintenance. In all, the Knight-Kit DC Lab Scope represents the finest in laboratory instrument construction—nothing has been overlooked to make it a thoroughly professional instrument. 16x12 $\frac{3}{8}$ x19 $\frac{1}{2}$ ". Shpg. wt.. 60 lbs.

83 YZ 945. No Money Down. ONLY. . . . . 395.00

**SPECIFICATIONS: VERTICAL SYSTEM** (Using Dual-Trace Preamplifier)—Bandwidth: 10 megacycles. Rise Time: 40 nsec. Sensitivity: 50 mv/cm to 20 v/cm.

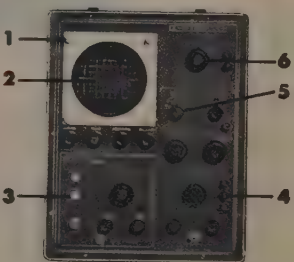
**HORIZONTAL SYSTEM—Calibrated Sweep Range:** 0.5 sec/cm to 50 nsec/cm in 30 ranges by use of basic sweep ranges (100 msec, 10 msec, 1 msec, 100  $\mu$ sec, 10  $\mu$ sec, 1  $\mu$ sec); horizontal amplifier gain (x1, x5 and x20); and horizontal sweep speed multiplier (x1, x2 and x5). Also has uncalibrated 10:1 multiplier vernier control—provision for external capacitor for extremely slow sweeps. **Time Marks:** Intensity modulated marks at 10  $\mu$ sec, 100  $\mu$ sec and 1000  $\mu$ sec intervals—available from front panel. Permits adjusting sweep timing accuracy down to 1%. **Triggering:** Sensitivity: 100 mv external, 2mm deflection internal. Inputs: line, external AC or DC, internal AC or DC, and preset level. Level; adjustable to provide triggering at selected points on wave form. **Amplifier:** Bandwidth: DC to 750 kc within 3 db down. Sensitivity: 1 v/cm to 10 v/cm. Has 10:1 attenuator and uncalibrated vernier gain control available on front panel.

**GENERAL—Voltage Calibrator:** 1 kc square wave from 10 mv to 50 v p-p,  $\pm 1\%$ , in 24 steps. Has output for use with other equipment. **Low Voltage Supply:** Regulated —150, +100, +250 and +420 volts. **High Voltage Supply:** Regulated —1750 and +3500 volts. **Power Requirements:** 105-130 volts, 60 cycle AC.

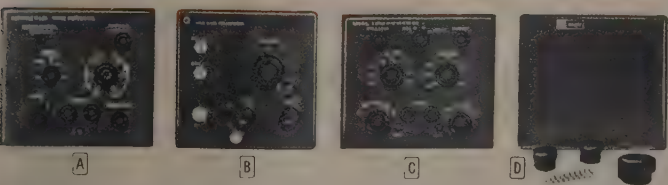
## THE PRODUCT OF OVER 3 YEARS OF RESEARCH AND ENGINEERING

- Wide Vertical Frequency Response from DC to 10 Megacycles
- DC-Coupled Triggered Sweep
- Two Ranges of Sweep Expansion Allow Observation of Even the Smallest Waveform Details
- Sweep Timing Accuracy Adjustable to 1% with Built-In Markers
- Highly Stable Voltage-Regulated Power Supply—Frequency-Compensated Circuits
- Amplifiers DC-Coupled Through-out—Shunt-Series Peaking Provides Faithful Pulse Reproduction
- Color-Coded Controls—Functionally Grouped for Maximum Operating Convenience

## TRUE LAB-QUALITY FEATURES



- 1 Convenient camera mounting studs—accept standard camera mounts.
- 2 Special application of P-2 phosphor on post-accelerator CRT provides sharp trace—even on fast displays.
- 3 Plug-in vertical preamps for highest versatility and convenience.
- 4 Calibrated triggered sweep from 0.5 sec/cm to 50 nsec/cm.
- 5 Crystal-controlled oscillator provides markers from every 10 microseconds to every millisecond.
- 6 Voltage regulated p-p calibrator—reference voltages, 10 mv to 50 v.



**A 83 YZ 946. Differential High-Gain Preamplifier Kit.** Input Sensitivity: 1 mv p-p/cm. Response: DC to 100 kc within 3 db down. Differential Ratio: 5000:1. Input Impedance: 1 megohm shunted by 40 pf. Shpg. wt., 5 lbs. No Money Down. ONLY. . . . . 54.50

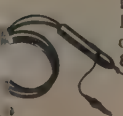
**B 83 YZ 947. Wide-Band Preamplifier Kit.** Input Sensitivity: 50 mv p-p/cm. Response: DC to 10 mc, less than 3 db down. Rise Time: Approximately 40 nsec (with basic scope). Input Impedance: 1 megohm shunted by 40 pf. Shpg wt., 5 lbs. No Money Down. ONLY. . . . . 64.50

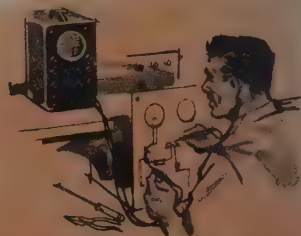
**C 83 YZ 948. Dual-Trace Preamplifier Kit.** Input Sensitivity: 50 mv p-p/cm. Response: DC to 10 mc, less than 3 db down. Switching Rate: Choice of 100 kc chopped, or alternate sweeps. Input Impedance: 1 megohm shunted by 40 pf. Shpg. wt., 5 lbs. No Money Down. ONLY. . . . . 79.95

**D 83 Y 977. Blank Preamp Chassis.** With knobs. 2 $\frac{1}{2}$  lbs. ONLY. . . . . 7.95

**LOW-CAPACITY PROBE KIT.** For use with Knight-Kit DC Lab Scope. Provides high-accuracy readings with minimum circuit loading. Shpg. wt., 2 lbs.

83 Y 949. ONLY. . . . . 16.50





**COMPARE THESE  
FEATURES . . . THEN  
COMPARE PRICE!**

\* High-frequency vertical response matched by high-speed sweep. Can even make RF stand still.

\* Lab-quality design: cathode-follower input; direct coupling to CRT deflection plates.

\* Two up-to-the-minute printed circuit boards and laced wiring harness for quick, easy assembly.

WITH TEST  
LEADS

wide response— $\pm 3$  db,  
5 cps to 5 megacycles

## High Sensitivity 5" Wide-Band Scope Kit

ONLY  
**\$69.95**  
NO MONEY  
DOWN

Wide sweep range, broad response and high sensitivity make this popular Knight-Kit a best buy for shop and lab alike. Employing only the highest quality components throughout its expertly designed circuitry, this top-performer represents the ideal scope choice for color TV servicing plus hundreds of other applications.

Push-pull vertical and horizontal amplifiers with cathode-follower inputs assure minimum circuit loading and almost zero wave-form distortion. 2nd anode voltage of 1400 volts provides high-intensity trace. Excellent synchronization on complex waveforms is achieved by positive and negative locking. Includes frequency-compensated input attenuator, 1-volt p-p calibrator, internal astigmatism control and retrace blanking. Z-axis input, and directly coupled positioning controls.

Handsome gray steel case,  $14\frac{1}{4} \times 10\frac{1}{8} \times 15\frac{1}{2}$ ", has charcoal gray front panel. Complete with test leads; 5UP1 CRT with molded rubber mount; wire and solder. For 110-125 v., 60 cycle AC. Shpg. wt., 28 lbs.

83 YU 144. No Money Down. ONLY.....69.95

87 YU 502. Factory Wired. ONLY.....109.95

83 Y 665. Vinyl Cover for above. 6 oz. ONLY.....1.50

**SPECIFICATIONS:** Vertical Amplifier Sensitivity: 25 mv (rms) per inch. Vertical Amplifier Response:  $\pm 3$  db, 5 cps to 5 mc; only 1 db down at 3.58-mc color burst frequency. Vertical Amplifier Input Impedance: With x1 sensitivity—2.9 megohms and 21 mmf; x0.1 and x0.01—3.4 megohms and 12 mmf. Horizontal Amplifier Sensitivity: 600 mv (rms) per inch. Horizontal Amplifier Response: Down only 3 db at 600 kc; 4 db at 1 mc. Locks in as high as 9 mc. Sweep Generator Range: 15 cps to 600 kc. Sweep Generator Synchronization: Internal Positive, Internal Negative, External and Line Frequency. Power Supplies: Low voltage supply has 6x4 rectifier with 6C4 voltage regulator. High-voltage rectifier 1V2 supplies approximately 1400 volts to CR tube for high-intensity trace.



**VOLTAGE CALIBRATOR KIT.** For measuring voltages with scopes. Puts .01-100 v. square wave on screen. Switch for comparing external signal.  $7\frac{1}{8} \times 5\frac{3}{8} \times 4\frac{1}{4}$ ". For operation from 110-125 v., 60 cycle AC. Shpg. wt.,  $4\frac{3}{4}$  lbs.

83 Y 136. ONLY.....12.95

### ACCESSORY PROBE KITS

83 Y 148. 250-Mc RF Demodulator Probe Kit. 8 oz....3.75

83 Y 147. 12-Mmf Low-Capacity Probe Kit. 10 oz....3.75







Portable  
Model



Counter  
Model

ONLY  
**\$38.95**  
NO MONEY  
DOWN

*checks virtually all receiving and hi-fi tubes  
accommodates future tube types—always up to date*

## Latest Model 600-A Deluxe Tube Checker Kits

**PORTABLE MODEL.** Check all the latest tube types with this accurate, highly dependable, up-dated tube tester. The 600-A now tests over 1750 tube types—new sockets accept nuvistors, compactrons, novar and 10-pin miniature tube types. Also tests 4, 5, 6, and 7-pin large, and small, 7-pin miniature tubes, octals, locktals, 9-pin miniatures, and pilot lamps. Checks TV picture tubes, too, when used with adapters at right.

Tube performance is accurately measured by the amount of cathode emission. The large, easy-to-read  $4\frac{1}{2}$ " meter has a three-color "GOOD-?-REPLACE" scale. Also tests for shorts, opens and leakage. In addition, provides an easy means of checking continuity of wiring, appliances, motors, etc.

Convenient front panel line-voltage adjustment control compensates for any line-voltage variations. Filament switch lets you select 16 different voltages from 0.63 to 117 volts—facilitates checking virtually all receiving and hi-fi tube types.

The universal-type selector switches permit setting up for any future tube-type—without any wiring changes. Illuminated roll chart spins easily for quick readability. Your Knight-Kit Model 600-A Tube Checker is supplied complete with all parts, wire and solder, and easy-to-follow, step-by-step instructions with wall size picture diagrams. In fabrikoid-covered portable wood case. With handy carrying handle. Size,  $6\frac{1}{2} \times 14\frac{1}{2} \times 10\frac{1}{2}$ ". For operation from 110-125 volts, 50-60 cycle AC. Shpg. wt., 13 lbs.

83 YX 636. **No Money Down. ONLY**..... 38.95  
87 YX 518. **Factory-Wired. ONLY**..... 53.95

**COUNTER MODEL.** Same as Model 600-A, left, but has gray metal case.  $5\frac{1}{4} \times 14\frac{1}{2} \times 10\frac{1}{2}$ ". 14 $\frac{1}{2}$  lbs.

83 YX 635. **No Money Down. ONLY**..... 34.95

87 YX 519. **Factory-Wired. ONLY**..... 49.95

83 Y 672. Vinyl Cover for Above. 6 oz. **ONLY**.... 1.00

**REPLACEMENT ROLL CHART.** For up-dating previous Model 600 tube checkers. Shpg. wt., 2 oz.

83 Y 117. **ONLY**..... 1.50



**TV PICTURE TUBE HARNESS.** Check picture tubes up to 90° on Model 600-A checker.  $\frac{1}{2}$  lb.

83 Y 141. **ONLY**..... 4.50



**110° ADAPTERS.** Adapt TV tube harness, above, for checking 110° tubes. Shpg. wt., 2 oz.

83 Y 271. **Set of 2. ONLY**..... 3.04

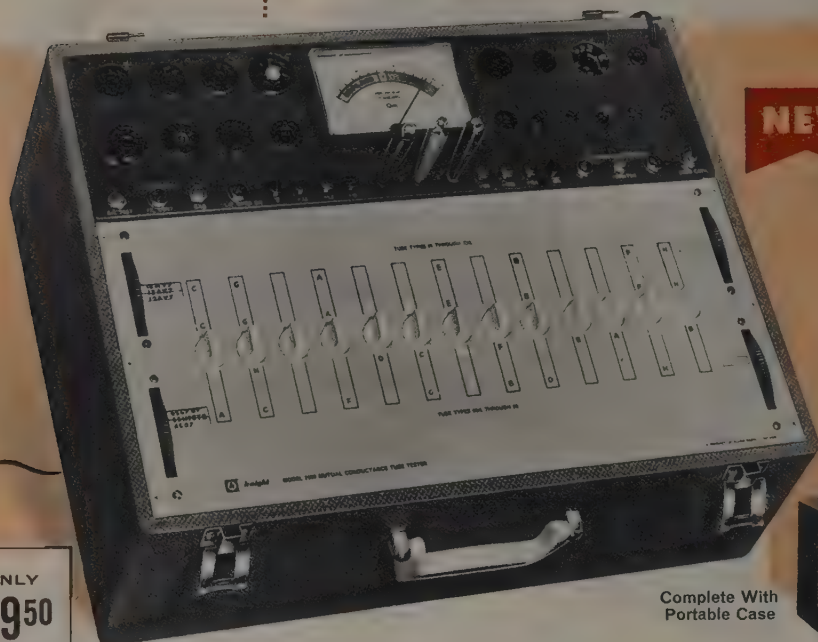
**CONVERSION KIT.** For checking nuvistor, novar, compactron, and 10-pin miniature tube types with previous Model 600 checkers. Connects by simply plugging into existing socket on tube checker. With instructions. Shpg. wt., 2 lbs.

83 Y 633. **ONLY**..... 3.95

### You're ALWAYS AHEAD With Knight-Kits

**Money-back Guarantee**  
Every Knight-Kit must meet with your complete satisfaction or your money back.

**Easy Terms.** Allied's Credit Fund Plan lets you buy the Knight-Kit of your choice with **no money down**.



**NEW**

Model  
2500

Complete With  
Portable Case



*gives you a speedy, complete, realistic picture of tube condition*

## Mutual Conductance Tube Tester Kit

- 4 1/2" Meter Directly Reads True Percentage of  $G_m$
- Tests 2500 Tubes Plus Transistors and Vibrators
- Has Built-In DC Voltmeter and Milliammeter
- Ultra-Sensitive Grid Current Test

Laboratory accuracy—easiest to use—most versatile—simulates actual operating conditions—that's the new Knight-Kit mutual conductance tube tester. The 2500 will test almost every tube or transistor you'll come across—offers enormous savings over comparable factory-assembled units. This precision instrument uses a new, simplified meter that gives you a clearer picture of actual tube condition than any other tester—tells you, on a single scale, any tube's transconductance value by showing you, on a percentage basis, how far its  $G_m$  deviates from normal. Meter also has "Good?-Bad" scale. Grid current, gas, heater-cathode shorts, and filament-continuity tests are provided too. Also tests transistors and vibrators.

Unique "window charts" permit fast, error-free setup—you just set the rotary selector switches so that the letters in their "windows" match "letters" in roll chart "windows". No other adjustments necessary! Exclusive roll chart design sharply reduces time required to locate tube types. And you'll never have to make any line voltage adjustments—thermally-compensated grid drive bridge automatically compensates for fluctuations. Deluxe power supply dynamically tests most tubes at rated power—checks pentodes as pentodes—not as triodes, etc. Also featured: built-in DC volt-milliammeter. In tan, leatherette-covered portable case. Panel is tan and beige. With leads, wire, solder, instructions. 10 1/4 x 19 3/4 x 14 1/2" deep. For 110-125 v., 60 cycle AC. Shpg. wt., 30 lbs.

83 YZ 996. No Money Down. ONLY..... \$99.50  
87 YZ 515. Factory Wired. ONLY..... 149.95  
83 Y 637. CRT ADAPTER. For above. Shpg. wt., 3/4 lbs. ONLY..... 9.95  
83 Y 674. Vinyl Cover for Model 2500. Wt., 6 oz. ONLY..... 1.50

### CHECKS THOUSANDS OF TUBES and TRANSISTORS

#### RECEIVING TUBES

#### FOREIGN and HI-FI

#### MILITARY and AMATEUR

#### INDUSTRIAL

#### COMPACTRONS

#### NUVISTORS

#### NOVARS and "10 PINS"

#### ACORN TUBES

#### 3 and 4-PIN TRANSISTORS

#### VOLTAGE REGULATORS

#### "EYE" TUBES

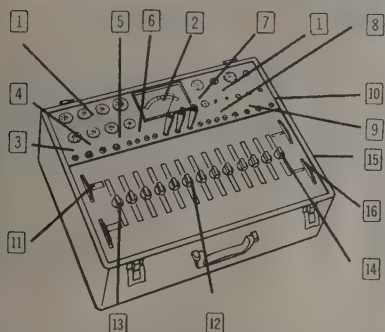
### OBSOLESCENCE-PROOF

*brilliantly designed with  
the future in mind*

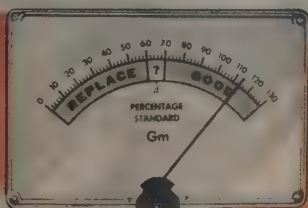
Bottom-mounted sockets let you replace older sockets with future designs at any time.



## AMAZINGLY EASY TO OPERATE



- 1—Tube and Transistor Sockets
- 2—4½" %G<sub>m</sub>/Good-?-Bad Meter
- 3—%G<sub>m</sub> Test Button
- 4—Shorts/Filament-Continuity Indicator
- 5—Volt-Milliammeter Pilot Light
- 6—Voltmeter Tip Jacks
- 7—Tube-Cap Test Leads
- 8—Milliammeter Tip Jacks
- 9—Vibrator Test Button
- 10—Cold-Cathode Test Button
- 11—Roll Chart Windows
- 12—Selector Switch Windows
- 13—Rotary Selector Switches
- 14—Bias and Load Controls
- 15—Roll Chart Control
- 16—Special Information Windows



## SUPERIOR-DESIGN METER SCALE

A single scale calibrated from 0-130% tells you the transconductance of any tube. Just consult roll chart for normal  $G_m$  value of tube under test—press "G<sub>m</sub> Test" button and note "G<sub>m</sub> Percentage Standard" scale—if the tube's  $G_m$  should be 10,000, a reading of 60% indicates the tube's rating is 60% of normal, or 6000; a 110 reading indicates a  $G_m$  10% high, or 11,000; etc. Simplicity itself!

**MONEY BACK GUARANTEE** on every Knight-Kit. You must be fully satisfied or we will refund your purchase price in full.

**NO MONEY DOWN** on this deluxe test instrument. Order today, and start enjoying its money-saving benefits right now.

## NOW! FOR TECHNICIANS—LABORATORY QUALITY AT A PRICE YOU CAN AFFORD!

Now—from Knight-Kit—everything you've ever wanted in a tube tester: lab-accurate transconductance readings under actual operating conditions—ability to test virtually all tube types plus transistors and vibrators—portability—all for less than \$100!



## IDEAL FOR THE LAB

Precision circuitry and components, amazing flexibility, and flawless engineering make the 2500 at home in any electronics laboratory. Truly, this superb unit is in a class with factory-wired instruments costing far more.



## Exclusive Design Features

### FASTEST OPERATION

Locate the desired tube type in one of the roll chart windows—rotate switches until their window letters match letters in roll chart window—identification is instant. No other settings necessary. Twin windows cover each half of chart—eliminate end-to-end "chart winding". Automatic line voltage adjust too.



### CHECKS ALL TYPES

19 sockets accept thousands of tubes and transistors including most foreign types. Test all popular entertainment-type tubes, subminiatures, "peewees", photo tubes, VR's, thyatrons, 3 and 4-pin transistors, plus many more. Adapter (facing page) permits testing TV picture tubes.



### SPECIFICATIONS

**Socket Accommodations:** 3-pin "peewee"; vibrator; 3 and 4-pin in-line and staggered transistors; 3, 4, 5 and 6-pin medium; 7-pin large and small; 2 and 7-pin subminiature in-line; 7-pin miniature; 8-pin subminiature round; 8-pin octal; 8-pin loctal; 8-pin rimlock (European); 9 and 10-pin miniature; 5-pin nuvisor; 9-pin novar; 12-pin compactron; and 8-pin acorn. **Bias Supply Voltage:** continuously variable. **Filament Voltages:** 145 separate voltage settings. **Meter Range in Microhms:** 100,000+.

**THERE IS NO FINER TUBE TESTER  
KIT AVAILABLE AT ANY PRICE**

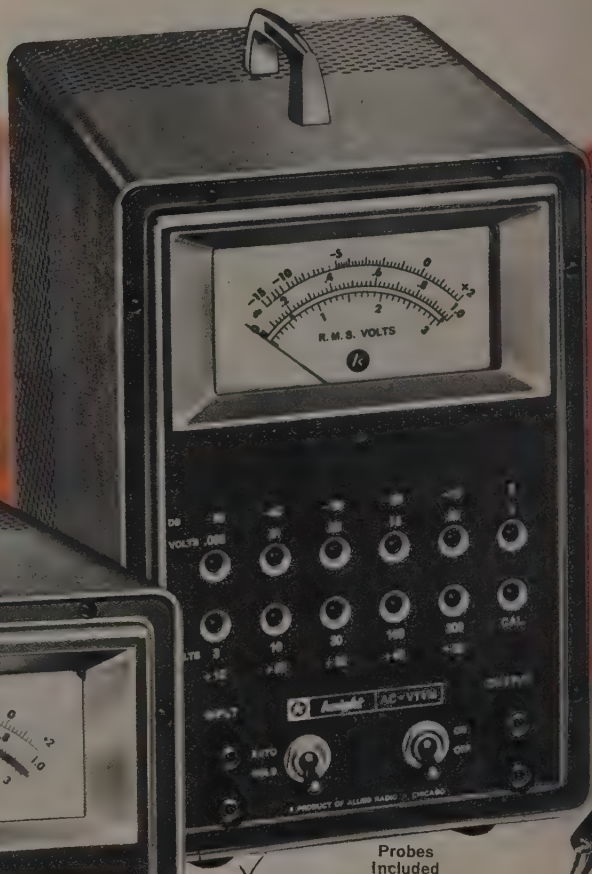
**knight-kit**  
INSTRUMENTS



NOW . . . your choice of 2 laboratory-accurate  
AC VTVM's—both in low-cost **knight-kit** form

**IDEAL FOR:**

Laboratories  
Schools  
Production Lines  
Broadcast Stations  
Serious Experimenters  
Audio Development  
Hi-Fi Servicing  
Research



**NEW**



Probes  
Included

ONLY  
**\$129<sup>50</sup>**  
NO MONEY  
DOWN

**A** AC VTVM Kit  
with AUTOMATIC  
Range Selection

ONLY  
**\$89<sup>95</sup>**  
NO MONEY  
DOWN

**B** AC VTVM Kit  
with MANUAL  
Range Selection

Probes  
Included





*selects range automatically . . . leaves hands free!*

## AC VTVM Kit with Automatic Range Selection

- "Self-Seeking" Mechanism Automatically Selects Proper Range As Soon As You Touch Probe to Circuit
- Panel Lights Instantly Show Scale Range in Use
- 3 Millivolts Full Scale—Reads As Low As 200  $\mu$ V
- Wide-Band Amplifier Has Output for Separate Use

Developed to meet the critical requirements of industry and laboratory, the revolutionary Knight-Kit AC VTVM represents an important break-through in test equipment design. This remarkable kit features Automatic Range Selection—an exclusive Knight-Kit innovation that automatically "seeks out" the proper range the instant you touch the test probe to the circuit. This unique mechanism quietly races through all 11 ranges in less than  $2\frac{1}{2}$  seconds—reversible motor provides an average access time of only 1 second! Extremely sensitive—three millivolts full scale and reading as low as 200  $\mu$ V—this highly accurate instrument rivals factory-wired VTVM's costing several times its price. For dependable service, it has no peer.

so easy to use—there's no manual range switch. Simply touch the probe to the circuit under test. The internal range switch of the VTVM is actuated by a DC motor—and light indicators on the front panel immediately flash on to show you the scale range in use! A separate Auto/Manual switch flips, and securely locks in, the seeking mechanism on any range you desire. Readings are amazingly quick—you save precious time—and they are accurate within 3% of full scale. Additional highlights of this marvelous instrument include: precise trigger circuits that guarantee positive switching between ranges; 100  $\mu$ A meter movement; long-life coin-silver switch contacts; shock-mounted components for freedom from microphonics; regulated, adjustable power supply.

is highly stable, 3-stage amplifier has a cathode follower output that may be connected to an oscilloscope for simultaneous wave form observation and making measurements—a great aid in developing audio, video and timing circuitry. In addition, this feature permits using the range selector and amplifier separately as an automatic vertical attenuator for scopes—using the amplifier as a preamp for other test gear.

ent circuitry assures easy assembly and precision performance. Easily vibrated with parts supplied—a DC VM is all you need. Extra-rugged metal case boasts an attractive front panel and an easy-to-read meter. Scales are standard G.R.-type with  $\frac{3}{4}$ " spacing. With 4-ft. coax cable with probe and G.R.-type plug; all parts; instructions. Size, 10x7x11 $\frac{1}{16}$ ". For operation from 110-125 volts, 60 cycle AC. Shpg. wt., 22 lbs.

YOU 608. No Money Down. ONLY. . . . . \$129.50

YOU 510. Factory Wired. ONLY. . . . . \$179.50

YOU 663. Durable Vinyl Cover. For above. 6 oz. ONLY. . . . . \$1.00

*now—laboratory accuracy at lowest cost!*

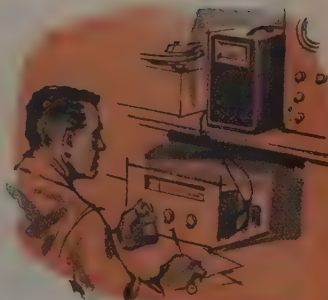
## New Manual AC VTVM Kit

In response to an almost overwhelming demand, Knight-Kit proudly introduces this new, manually-operated AC VTVM kit. Except for automatic range selection and scale indication, this superb instrument incorporates all the same superior features, plus the same laboratory accuracy and precision components as the kit described above. Unquestionably, at its surprisingly low cost, this new VTVM is one of the best test equipment values ever offered—an excellent instrument for use on production lines where infrequent range switching is required, for well-equipped service shops, or for any other application where superior accuracy and reliability are required—but at a modest price. Mirrored scale has voltages marked in black, and decibels in red. Supplied with 4-ft. coaxial cable with probe and G.R.-type  $\frac{3}{4}$ " spaced plug; all parts; and easy-to-follow, step-by-step instructions. Size, 10x7x11 $\frac{1}{16}$ ". For operation from 110-125 volts, 60 cycle AC. Shpg. wt., 22 lbs.

YOU 978. No Money Down. ONLY. . . . . \$89.95

YOU 517. Factory Wired. ONLY. . . . . \$124.50

YOU 676. Durable Vinyl Cover. For above. 6 oz. ONLY. . . . . \$1.00



### CHECK THESE SPECIFICATIONS

**Voltage Ranges (Full Scale):** .003, .010, .030, 0.1, 0.3, 1, 3, 10, 30, 100 and 300.

**Scale Readings:** 0-1 v. (with .02-v. divisions) and 0-3 v. (with 0.1-v. divisions); also—15 to +2 db.

**Decibel Range:** —65 to +52 in 11 ranges.

**Response:** Automatic Model— $\pm 1$  db, 20 cps to 100 kc;  $\pm 1\frac{1}{2}$  db, 100 kc to 2.5 mc. Manual Model— $\pm \frac{1}{2}$  db, 30 cps to 300 kc;  $\pm 1$  db, 20 cps to 2 mc;  $\pm 1\frac{1}{2}$  db, 17 cps to 4 mc. Reference, 0 db at 1 kc.

**Input Impedance:** 10 meg shunted by 15 pf, 3-300 v.; 25 pf, .003 to 1.0 volt.

**Amplifier Output:** Automatic Model—0.09 v. (29.5 db gain);  $\pm 1$  db, 20 cps to 1.0 mc. Manual—0.08 v. (28 db gain);  $\pm 1$  db, 20 cps to 2.0 mc.

**Tube Complement:** Automatic Model—6AW8; 3—6DK6; 2—6DR7; 5651; 2—12AT7; 12AX7; E290 rectifier. Manual Model—6AW8; 3—6DK6; 2—6DR7; 5651; E290 rectifier.

**SATISFACTION IS GUARANTEED.** You must be completely satisfied or your purchase price will be refunded.

**NO MONEY DOWN** buys you either of these lab-quality instruments—take up to 24 months to pay.



5 bands cover  
160 kc to 112 mc—  
all on fundamentals

ONLY  
**\$1995**  
NO MONEY  
DOWN

## RF Signal Generator Kit

- Employs Precision-Wound Coils—Requires No Calibration
- Provides Modulated, Unmodulated and 400-Cycle Output

Build this wide-range, extremely stable RF signal generator and pocket big dollar savings over the cost of comparable factory-wired instruments. This top-performing signal generator's wide fundamental output range is divided into five separate bands—has large, clearly calibrated semi-circular dial, planetary drive, and easy-to-grip knob to permit exceptionally high accuracy in the setting of individual frequencies.

Serves as a TV marker generator when used with sweep generators such as Knight-Kit at right. Provides output on fundamentals from 160 kc to 112 mc—plus useful harmonics to 224 mc. Output can be modulated at 400 cps with built-in oscillator (externally available).

Features the high-stability Colpitts circuit. Jack for external modulation. Maximum audio output, 10 volts. RF output, over 0.1 volt on all ranges. Step and continuous-type attenuator controls permit precise adjustment of output. Requires no calibration after assembly. Gray case—charcoal gray panel. Complete with all parts, wire and solder, instructions.  $7\frac{1}{4} \times 10\frac{1}{8} \times 5\frac{1}{4}$ ". For 110-125 v., 60 cycle AC. Shpg. wt., 11 lbs.

83 Y 145. No Money Down. ONLY.....19.95

87 Y 516. Factory-Wired. ONLY.....29.95

83 Y 669. Vinyl Cover for Above. 6 oz. ONLY..... 1.00

YOU SAVE most with Knight-Kit test equipment because YOU do the remarkably easy, step-by-step assembly yourself.

HIGHEST QUALITY is yours with every Knight-Kit test instrument. You get years of dependable, accurate performance.

**NO MONEY DOWN** buys any Knight-Kit Instrument Kit on Allied's Credit Fund Plan—up to 24 months to pay.



high-linearity TV-FM  
sweep . . . comparable to  
costly lab-quality instruments

ONLY  
**\$4495**  
NO MONEY  
DOWN

## Sweep Generator Kit

- Special Circuit for Extreme Sweep Linearity
- Uniform Fundamental Output from 300 kc to 250 mc—Flat Within 1 db
- Includes Built-In Crystal Marker Oscillator

TV and FM alignment becomes a snap with this dollar saving Knight-Kit. Comparable to far more costly factory-assembled sweep generators, this precision instrument provides continuous frequency coverage from 300 kc to 250 mc in 4 ranges—all on fundamentals. Sweep linearity actually measures up to laboratory requirements! The exclusive Knight-Kit sweep system employed also provides easy assembly and adjustment, electronic retrace blanking, voltage regulation and automatic gain control which keeps output voltage constant over entire sweep range—flat within 1 db on all ranges.

Output is better than 0.15 volts. Selectivity curve of TV or FM sets appears as true wave form on scopes to insure precise alignment. Sweep width is continuously variable from 0 to 13 mc. Features include crystal-type marker oscillator, dual crystal socket, and switch for selecting either of two crystals (not included—see below). Crystal and external markers can be mixed. Includes step-type and fine controls for RF output, plus separate marker amplitude control.

Output filter attenuates undesirable harmonics 20 db on 50-mc range. 5-v. rms, 60-cycle sine-wave horizontal sweep voltage available from front panel. Complete with all parts, wire and solder.  $8\frac{3}{8} \times 12\frac{1}{8} \times 7\frac{1}{8}$ ". For 110-125 v., 60 cycle AC. Shpg. wt., 15 lbs.

83 YX 123. No Money Down. ONLY.....44.95

87 YX 520. Factory-Wired. ONLY.....69.95

83 Y 667. Vinyl Cover for Above. 6 oz. ONLY..... 1.00

OPTIONAL MARKER CRYSTALS. Shpg. wt., 3 oz.

99 Y 286. 4.5 MC.  $\pm 0.005\%$ . ONLY.....4.80

99 Y 143. 5.0 MC.  $\pm 0.02\%$ . ONLY..... 3.95

99 Y 145. 10.7 MC.  $\pm 0.02\%$ . ONLY..... 3.95





ONLY  
**\$19<sup>95</sup>**  
With  
Test Leads



ONLY  
**\$14<sup>95</sup>**  
With  
Test Leads



ONLY  
**\$35<sup>95</sup>**  
NO MONEY  
DOWN

features Bridged-T R/C  
oscillator for high  
dependability and accuracy

## Sine Wave Audio Generator Kit

- Covers 20 cps to 1 mc in 5 Ranges
- Full 10-Volt Output,  $\pm 1$  db to 1 mc
- Two Cathode-Follower Output Stages for Extremely High Stability

featuring an up-to-date circuit developed by the U.S. Bureau of Standards, this popular audio generator kit represents a top test instrument value. Speeds up and adds highest accuracy to any servicing involving the use of calibrated, continuously variable audio signals. Its performance actually equals or surpasses that of more costly factory-assembled units.

Incorporating a 6CB6 Bridged-T R-C oscillator, the Night-Kit Audio Generator operates into either high-impedance or 600-ohm loads. Provides full 10-v. output from 20 cps to 1 mc,  $\pm 1$  db, in 5 ranges (into high impedance). Both a step-attenuated output voltage control and a continuously variable level control are provided in the output stage. Second cathode-follower stage between oscillator and load assures exceptional stability. Distortion is less than 0.25% from 100 cps through the audible range (into high impedance).

Gray steel case,  $7\frac{1}{4} \times 10\frac{1}{8} \times 8\frac{1}{2}$ ", with charcoal gray front panel. Supplied complete with all parts, pre-cut wire, solder and step-by-step instructions plus pictorial schematic diagrams. For operation from 110-125 v., 60 cycle AC. Shpg. wt., 15 lbs.

YX 137. No Money Down. ONLY.....35.95

Y 668. Vinyl Cover for Above. 6 oz. ONLY.....1.00

## A Resistor-Capacitor Tester Kit

*dependable bridge-method measurement*

You'll wonder how you ever got along without this handy time-saver! Measures resistance and capacitance by the dependable bridge method; checks for opens and shorts in capacitors; and indicates the power factor of electrolytics. Easy-to-read dial and "magic eye" null indicator shows resistance and capacitance at a glance. Test capacitors at actual working voltages of 50, 150, 250, 350 and 450 volts. Checks capacitance values from 10 mmf to 1000 mfd. Tests resistance from 100 ohms to 5 megohms. Accuracy,  $\pm 10\%$ . Power factor range, 0-50%. With test leads, wire and solder.  $7\frac{1}{4} \times 10\frac{1}{8} \times 5\frac{1}{4}$ ". For 110-125 v., 60 cycle AC. Shpg. wt.,  $9\frac{1}{4}$  lbs.

83 Y 124. No Money Down. ONLY.....19.95

87 Y 503. Factory-Wired. ONLY.....29.95

## B "In-Circuit" Capacitor Checker Kit

*checks capacitors without unsoldering*

Here's an instrument that will quickly pay for itself many times over in valuable time saved! Just press a button, and the "magic eye" indicator shows open or shorted capacitors instantly—while they are still wired in the circuit! Tests for opens and shorts on any capacitor of 20 mmf capacitance or greater—even when capacitor is in parallel with a resistance as low as 50 ohms. Tests for shorts up to 2000 mfd when shunted by as low as 20 ohms. With test leads, wire, solder.  $7\frac{3}{4} \times 5\frac{3}{8} \times 5$ ". For 110-125 v., 60 cycle AC. Shpg. wt., 6 lbs.

83 Y 119. ONLY.....14.95

87 Y 524. Factory-Wired. ONLY.....22.95

## C Low-Cost Flyback Checker Kit

You'll race through TV deflection circuit repairs with this low-cost Flyback and Yoke Checker kit. Indicates shorts in any coil with a "Q" greater than 1, and inductance from .0003 to 2 henries. Checks continuity of circuits with 0 to .5 megohms resistance.  $4\frac{1}{2}$ " meter has 400- $\mu$ a movement. Gray case with charcoal gray panel. With test leads, wire and solder.  $7\frac{3}{4} \times 5\frac{3}{8} \times 5$ ". For 110-125 v., 60 cycle AC. Shpg. wt., 6 lbs.

83 Y 118. No Money Down. ONLY.....21.95



for fast radio, TV,  
amplifier checking . . . tests  
RF, IF, & audio circuits

ONLY  
**\$26<sup>50</sup>**  
No Money  
Down

## High-Gain Signal Tracer Kit

- Gain of 91,000—Highest in Its Price Class!
- Binding Posts Permit Substitution Servicing
- Provision for External Oscilloscope or VTVM

You'll find a hundred-and-one applications for this versatile test instrument in the service shop and home hobby corner alike. Comparable to assembled units costing far more, it permits fast, accurate servicing of radios, TV sets, amplifiers, etc.—lets you check RF, IF, video and audio circuits.

"Magic Eye" tube with calibrated attenuators clearly indicates signal presence and permits stage-by-stage gain measurements. Built-in 4" speaker permits audible signal tracing and use of Signal Tracer as an audio amplifier. Built-in wattmeter calibrated 25-1000 watts—wider range than any other kit. A pentode front-end is employed for remarkably high amplification—provides gain of 91,000, the highest in its price class.

Special binding posts, attached to the internal componentry, allow easy "substitution servicing". Speaker, output transformer, and 280-v. B+ supply may be connected to unit being serviced, when these parts are suspect, and diagnosis made by substitution. 2-position RF-AF probe, supplied, affords complete testing versatility—one position for checking RF, IF and video stages, the other for testing audio-frequency stages. Noise test facilities let you apply DC to volume controls for amplification of noise characteristic. Attractive gray steel case with charcoal-gray panel. Complete with wire, solder, and easy instructions.  $7\frac{1}{2} \times 10\frac{1}{2} \times 5\frac{1}{4}$ ". For 110-125 v., 60 cycle AC. Shpg. wt., 12 lbs.

83 Y 135. No Money Down. ONLY.....26.50

87 Y 525. Factory-Wired. ONLY.....44.50

83 Y 669. Vinyl Cover for Above. 6 oz. ONLY..... 1.00



ONLY  
**\$37<sup>95</sup>**  
No Money  
Down

dependable,  
variable voltage,  
heavy-duty DC  
power supply



## 6V-12V Battery Eliminator Kit

- Exceptionally High Current Capacity—15 Amps at 6 Volts, 10 Amps at 12 Volts
- Efficient Filter Provides Low-Ripple Output

Whether you're a serviceman, hobbyist, or both, you'll find dozens of uses for this heavy-duty power supply. Serves as a substitute "battery" for servicing auto radios, mobile Ham gear, hybrid and full transistor radios, vacuum-tube portables, etc. Great, too, as a deluxe power supply for model railroading and other hobby uses. High current capacity permits charging 6 and 12 volt auto batteries overnight. Has variable output of 0-8 or 0-15 volts DC. Current ratings: continuous—15 amps at 6 volts, 10 amps at 12 volts; intermittent—17.5 amps at 6 volts, 12.5 amps at 12 volts. Meters calibrated 0-15 VDC and 0-20 amps DC. Gray metal case with charcoal-gray panel. Complete with wire and solder, step-by-step instructions.  $8\frac{1}{2} \times 12 \times 7\frac{1}{2}$ ". For 110-125 v., 60 cycle AC. Shpg. wt., 18 lbs.

83 YX 129. No Money Down.....37.95

87 YX 505. Factory-Wired. ONLY.....47.95

## Transistor & Diode Checker Kit



ONLY  
**\$9<sup>95</sup>**

Low-Cost Checker  
with Adjustable Forward  
Gain

INCLUDES BATTERY

Here's a low-cost instrument that's fast becoming a service "must" in today's modern world of semi-conductors! Checks leakage-to-gain ratio and noise level of junction, point-contact and barrier transistors. Also checks germanium

and silicon diodes, forward and reverse-current conduction of selenium rectifiers, continuity and shorts. Has Leakage-Gain switch; forward-current control; calibration control; separate sockets for PNP and NPN transistors. With battery.  $6\frac{1}{4} \times 3\frac{1}{2} \times 2\frac{1}{4}$ ". Wt.,  $1\frac{1}{4}$  lbs.

83 Y 149. ONLY.....8.95

87 Y 523. Factory-Wired. ONLY.....13.95

**EASY TERMS.** Any Knight-Kit is yours with **NO MONEY DOWN** on Allied's Credit Fund Plan. You get up to 24 months to pay—up to 50% increased buying power.

**MONEY-BACK GUARANTEE.** All Knight-Kits must meet with your complete satisfaction or your purchase price will be refunded.



**Sensitive, all-purpose  
VOM... fits in the  
palm of your hand**



Complete  
With  
Test  
Leads

ONLY  
\$9.95

## Low-Cost 1000 Ohm/Volt Pocket VOM Kit

- Compact—Lightweight—Amazingly Low in Cost
- 13 Ranges—Reads Voltage, Current & Resistance
- 1000-Ohms-Per-Volt Sensitivity on DC Ranges

Only slightly larger than a package of cigarettes, this popular VOM kit is great for hobbyists, in-the-home servicemen, Hams, experimenters—anyone who wants a sensitive, compact VOM at extremely low cost. Big 2½" meter has an easy-to-read 2-color scale. Clear plastic window protects meter face from damage. DC voltage ranges: 0-5-15-50-150-500 volts. AC voltage ranges: 0-15-50-150-500 volts. Resistance: 0-30,000 ohms (1200 ohms mid-scale). Input resistance: 1000-ohms-per-volt on DC ranges. Has front-panel zero-adjust. Employs 5% multipliers and shunts. Simplified point-to-point wiring to input jacks which are already installed in case makes assembly quick and easy. With all parts, test leads, battery, wire and solder, and step-by-step instructions. 4x2½x1½". Shpg. wt., 1 lb.

83 Y 708. ONLY.....9.95

## Substitution Boxes



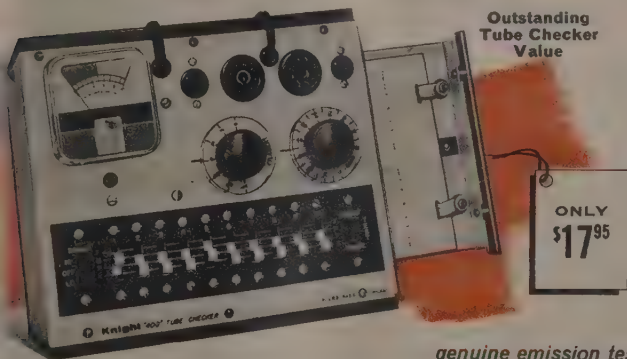
With Test  
Leads

### RESISTANCE SUBSTITUTION KIT

Find the correct resistance value required in a circuit—in seconds—with this handy kit. Saves time in radio and TV servicing as well as in equipment design. Provides 36 values in 2 ranges. Low range, 15-10,000 ohms; high range, 15,000 ohms to 10 megohms. Slide switch selects either range. Accuracy within ±10%. 18-position rotary switch for rapid setting. Compact, bakelite case; aluminum panel. With 18" leads, alligator clips, wire and solder. 6¼x3¾x2". Shpg. wt., 1¼ lbs.

83 Y 139. ONLY.....5.95

87 Y 521. Wired. ONLY.....9.95



Outstanding  
Tube Checker  
Value

ONLY  
\$17.95

*genuine emission tester*

## Model 400 Economy Tube Checker Kit

Checks Over 1300 Tube Types... Great for Hobbyists and Experimenters

An easy-to-build tube checker offered at a price so low that no hobbyist, part-time radio-TV serviceman, or experimenter can afford to be without one. A genuine emission-type tester of amazing versatility, the Knight-Kit 400" permits accurate, comprehensive checking of all tube elements. Checks over 1300 of the most commonly used radio, TV, and hi-fi tubes for cathode emission, shorted elements, and filament continuity. Has sockets for 7 and 9-pin miniature, octal and locial base tubes. Special slide-out drawer holds unique "flip-card" tube charts for easy reference. Obsolescence-proof slide-switch assembly lets you connect any tube-element configuration quickly. Meter has 2-color red-green (replace-good) scale. Gray with beige front panel. With all parts, wire and solder, instructions. 4x9x8". For 110-125 v., 50-60 cycle AC. Shpg. wt., 7 lbs.

83 Y 707. ONLY.....17.95



18 Standard  
RETMA Values

With Test  
Leads

### CAPACITANCE SUBSTITUTION KIT

Low in cost, this substitution box kit saves you time and effort in finding correct values for replacement of worn, illegible capacitors. Provides 18 standard values of capacitance from .0001 mfd to .22 mfd. Accuracy is ±20%. All values are 600 volts, except .15 and .22 mfd which are 400 volts. An 18-position switch permits fast selection. In sturdy bakelite case with anodized aluminum panel. With 18" leads, alligator clips, wire and solder. 6¼x3¾x2". Shpg. wt., 1¼ lbs.

83 Y 138. ONLY.....5.95

87 Y 522. Wired. ONLY.....9.95



## Shortwave Receivers that Double your fun ...

### HOBBYIST KITS

**FASCINATING TO BUILD  
... WONDERFUL TO OWN**

Knight-Kit hobby kits offer exciting fun for young and old alike. You'll enjoy the easy, step-by-step assembly as well as the finished unit's top performance.

**EDUCATIONAL.** Building a Knight-Kit is a fascinating way of learning the basic fundamentals of electronics. You'll see first-hand where each part goes and what it does as you put together expertly designed electronic circuits that really work.

**PRACTICAL.** Knight-Kit hobby kits are useful. Shortwave receivers, intercoms, table radios, a photoelectric relay, a tachometer, and many other functional units are available. Low in cost, they provide years of dependable performance.

**MONEY-BACK GUARANTEE.** The Knight-Kit hobbyist kit you purchase must meet with your complete satisfaction in every way—or your entire purchase price will be refunded.

### EASY TERMS

Knight-Kit hobbyist kits are yours for **NO MONEY DOWN** on Allied's Credit Fund Plan. You get up to 24 months to pay—enjoy up to 50% increased buying power.

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FIRST KIT OF ITS KIND!

enjoy world-wide shortwave with this

### Transistorized "DX'er" 2-Band Receiver Kit

- 3-Transistor Regenerative Circuit
- Battery Powered—Take It Anywhere
- Covers 550-1500 kc and 7.5-17.5 mc
- Provides Clear Headphone Reception

ONLY  
**\$19.95**

**NO MONEY  
DOWN**

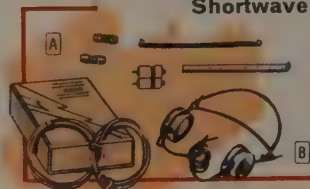
There's a whole new world of shortwave listening adventure packed into this low-cost, ultra-compact, transistorized Knight-Kit receiver! Battery operated, this lightweight "DX'er" really "pulls 'em in" wherever you go. Its sensitive regenerative circuit tunes shortwave from 7.5 to 17.5 megacycles, as well as all your favorite AM broadcasts from 550 to 1500 kc. You'll hear thrilling foreign broadcasts on the international shortwave frequencies, exciting messages from ships and planes, fascinating calls from Ham radio operators on the 20-meter band, and lots more.

The "DX'er"'s two tuning ranges are clearly calibrated in large black numerals against a smart, flat-finish aluminum background. Large, easy-to-grip tuning knob provides easy "dialing." Regeneration control lets you "peak" receiver for top performance on voice and code reception. You'll go quickly and easily from AM broadcast band reception to thrilling shortwave with the handy, front-panel Bandswitch control. Antenna Trimmer—conveniently located on front panel—lets you "tune up" for maximum signal strength. Also includes Off-On switch and headphone jacks. Comes complete with 25-ft. indoor antenna, gray metal cabinet, wire and solder, easy step-by-step instructions. Less outdoor antenna kit, headphone and batteries, below. 5x9x5 3/4". Shpg. wt., 6 lbs.

83 Y 943. No Money Down. ONLY.....19.95

BATTERIES FOR ABOVE. Penlight-type—"DX'er" requires 4. Wt., 3 oz.  
53 Y 031. NET EACH.....10c

### Shortwave Listening Accessories



**A** 83 Y 100. Outdoor Antenna Kit. 50' antenna wire, 25' lead-in, insulators, etc. 1 1/2 lbs. NET.....1.03

**B** 59 Y 110. 2000-Ohm Headset. For "Span Master" (opposite page) or "DX'er" (above). 12 oz. NET.....2.08



TUNE IN ON HAM BANDS . . .

LISTEN TO AIRCRAFT . . .

PLUS ALL YOUR FAVORITE  
AM PROGRAMS

**Fun to Build . . . Fun to Use . . . a Pride to Own!**



COMPLETE WITH CABINET

*travel the world from your armchair—hear history in the making!*

## Famous "Span Master"® 4-Band Shortwave Receiver Kit

- Covers AM Broadcast and International Shortwave from 540 kc to 30 mc
- 4 Tuning Ranges with Handy Bandswitch
- AC Transformer Power Supply for Peak-Efficiency Tube Performance
- Sensitive Regenerative Circuit

ONLY  
**\$25<sup>95</sup>**  
NO MONEY  
DOWN

Far more than just a receiver kit, the famous Knight-Kit "Span Master" is actually your passport to the fascinating space-age hobby of shortwave listening. Featuring a sensitive, 4-band regenerative circuit, it provides full coverage of international shortwave plus all your favorite AM broadcasts. You'll tune in on fascinating foreign broadcasts, listen in on ships at sea and aircraft, hear interesting messages on the new Citizens Band, and receive exciting Amateur stations on the 160, 80, 40, 20, 15 and 10-meter bands—it's a thrilling new world of listening adventure.

The heart of this peak-performing receiver is its expertly engineered, exceptionally sensitive regenerative circuit. Bandspeed dial and fine regeneration control simplify tuning—provide excellent high-frequency reception. Coils for each tuning range have their own antenna windings to assure maximum sensitivity. Controls: calibrated Main Tuning; Bandspeed Tuning; Bandswitch; Volume; Coarse and Fine Regeneration. Also has headphone terminals and speaker cut-out switch to permit private headphone reception if desired. Power transformer for highly efficient tube operation. Employs a 6BZ6 detector and a dual-purpose 6AW8A tube which serves as an audio and power amplifier; also selenium rectifier.



### THESE CONTROLS MAKE TUNING SURE AND EASY

- 1 Main Tuning—provides fast, general-coverage tuning on any of the four bands.
- 2 Bandspeed Tuning—simplifies tuning of crowded shortwave stations.
- Bandswitch—saves time; no coils to change.
- Regeneration—may be set for voice or code.
- 5 Volume—includes built-in Off-On switch.
- Fine Regeneration—for precision adjustment.

A listing of foreign broadcasting stations included with this kit is a valuable aid in tuning in on transmissions from all over the world. In addition, the instruction manual includes the International Morse Code to help you learn to receive radiotelegraph messages sent by press stations, Amateurs, government stations, etc. Supplied with pyroxylin-covered cabinet, tubes, speaker, wire and solder, all parts, and step-by-step instructions. Less antenna, listed on opposite page. Size, 6¼x14x6¼". For operation from 110-125 volts, 60 cycle AC. Shpg. wt., 8 lbs.

83 YX 258. Complete with Cabinet. No Money Down. ONLY.....25.95



travel the world from your armchair with these famous, low-cost shortwave receivers



Hear International  
Broadcasts, Ships  
and Aircraft



... Hear  
History in  
the Making

### AN SWL FAVORITE!

#### PACKED WITH FEATURES . . .

- Covers 540-1700 kc & 6.5-17 mc
- Built-In Clear-Toned 4" Speaker
- Electrical Bandspread Tuning
- Sensitive Regenerative Circuit

Less Cabinet

## Low-Cost "Space Spanner"® 2-Band Receiver Kit

ONLY  
**\$16.95**  
LESS  
CABINET

Imagine the thrill of hearing broadcasts from overseas on a short wave receiver you've built yourself. Amazingly low in cost, the 2-band "Space Spanner" pushes back the horizons as it reaches out for exciting messages from the farthest corners of the earth. You'll hear foreign broadcasts, messages from

ships and planes, Amateur radio operators talking and sending code on the 40 and 20-meter bands—and lots more. Selector switch permits easy switching between the 6.5-17 mc shortwave range and 540-1700 kc standard broadcasts. Electrical bandspread control provides easy, accurate tuning. Beam-power amplifier and built-in 4" speaker insure clear, full-toned reception.

Headphone connectors and speaker cut-out switch on rear panel allow private listening. Sensitive regenerative circuit employs a 12AT7 detector/audio amplifier, 50C5 power amplifier and 35W4 rectifier. Six controls provide precise tuning: Bandspread, Main Tuning, Antenna Trimmer, Bandswitch, Regeneration and Volume.

Building the "Space Spanner" is an ideal way to learn about radio—and an economical way to own a fine receiver. Supplied complete with all parts, wire, solder, and easy, step-by-step instructions. 7 $\frac{7}{8}$  x 11 x 5 $\frac{5}{8}$ ". Less cabinet, below; Antenna and headphones. For 110-125 v., 50-60 cycle AC or DC. Shpg. wt., 7 lbs.

83 Y 209. ONLY . . . . . 16.95

WOOD CABINET FOR ABOVE. 2 lbs. ONLY . . . . . 1.95



ONLY  
**\$16.95**

### COILS FOR "OCEAN HOPPER"

Av. shpg. wt., 3 oz.  
83 Y 741. 165-540 kc. Only . . . . . 79  
83 Y 742. 1.65-4.1 mc.  
83 Y 743. 2.9-7.3 mc.  
83 Y 745. 7-17.5 mc.  
83 Y 744. 15.5-35 mc.  
83 Y 748. All 5. 1 $\frac{1}{2}$  lbs. Only . . . 2.95

EACH,  
ONLY . . . 65

## "Ocean Hopper" Receiver Kit

*covers shortwave, longwave, AM broadcast*

- Handy Plug-In Coils Cover 165 kc to 35 mc
- Employs Sensitive Regenerative Circuit
- Easy to Build—Simple to Operate—Fun to Own

One of the most popular kits ever offered, the world-famous "Ocean Hopper" brings you shortwave listening thrills unequaled at this amazingly low price. You'll hear foreign stations, ships and planes, Amateurs, local broadcasts, radio beacons—even calls on 500 kc, the international distress frequency for ships at sea.

Controls include Main Tuning, Bandspread, Antenna Trimmer, Off-On/Regeneration. Accommodates any 3-4 ohm PM speaker (not supplied) on strong stations. Includes AM broadcast plug-in coil—uses coils, at left, for reception of other frequencies. Comes with pyroxylin-covered wood cabinet with handy "trap door" for coil changing—wire, solder, and easy instructions. Less extra plug-in coils, headphones, antenna. Requires headphones and antenna, below. 6 $\frac{3}{4}$  x 10 $\frac{1}{2}$  x 5 $\frac{1}{2}$ ". For 110-125 v., 50-60 cycle AC or DC. Shpg. wt., 6 $\frac{1}{2}$  lbs.

83 Y 749. ONLY . . . . . 16.95

83 Y 100. Antenna Kit. 1 $\frac{1}{2}$  lbs. ONLY . . . . . 1.03

59 Y 112. Single Headphone. 8 oz. ONLY . . . . . 1.07

59 Y 110. Double Headphone. 1 $\frac{1}{4}$  lbs. ONLY . . . . . 2.08



## BUILD-YOUR-OWN PERSONAL POCKET RADIO

### 2-Transistor Radio Kit

*Rugged Design for Outdoor Use*

- Great for Sports Events  
—Take it Anywhere!
- Efficient, 2-Transistor  
Printed Circuit
- Easy-to-Follow, Step-by-  
Step Instructions



You'll marvel at the performance of this low-cost 2-transistor radio. Carry it anywhere—perfect for baseball and football games, picnics, hikes and other outdoor activities, as well as private listening at home. Fits easily into pocket or purse—or hangs from your belt with handy button-down flap.

Has efficient reflex-type 2-transistor circuit that actually does the work of three. Picks up local stations clear and strong with built-in ferrite-core antenna. Miniature dynamic earphone provides exceptionally good tone. Two controls—Off-On/Volume and Tuning. Assembly is a pleasure thanks to modern printed circuitry and famous Knight-Kit step-by-step instructions. With earphone, wire and solder. Less battery, listed below.  $3\frac{3}{8} \times 3\frac{3}{4} \times 1\frac{1}{4}$ ". Shpg. wt.,  $1\frac{1}{4}$  lbs.

83 Y 263. ONLY.....9.95

83 Y 264. 9-v. Battery, 4 oz. NET....93c

Great for Boy Scout  
Projects! Take It  
Camping, On Hikes—  
Anywhere Indoors or Out



*a portable you'll be proud of . . .  
strikingly smart in appearance  
. . . provides rich "big set" sound*



### 5-Transistor Portable Superhet Radio Kit

- RCA Drift-Field Transistors for Extra Sensitivity
- Modern Printed Circuitry for Easy, Fun-Filled Assembly
- Push-Pull Output and  $3\frac{1}{2}$ " Speaker for Full-Toned Sound
- Handsome Impact Case with Handy Pull-Out Top Handle

Up-to-the-minute styling, precision-engineered circuitry and extraordinary tonal quality highlight the design of this popular Knight-Kit. You'll be proud of its "big set" performance—and doubly proud to have built it yourself! Advanced-type RCA drift-field transistors, extra-large  $3\frac{1}{2}$ " speaker, Class B push-pull audio output stage, and a host of other features rank it with the finest.

Built-in ferrite loopstick antenna brings you top-notch reception both indoors and out. Phone jack output permits private listening with optional earphone by simply "plugging in". Extremely efficient circuitry greatly reduces battery drain—provides longer playing time. Uses popular 9-volt battery, available everywhere. (For maximum playing time, use mercury battery listed below.)

Attractive, high-impact ivory case is virtually unbreakable—has rich ebony panel trim and gleaming satin-gold metal endplates. Two controls—Off-On/Volume and Tuning. Printed circuitry insures fast, enjoyable assembly and perfect performance every time. Complete with wire, solder, and easy-to-follow instructions. Less battery and earphone, below.  $3\frac{3}{4} \times 8 \times 2$ ". Shpg. wt.,  $2\frac{1}{4}$  lbs.

83 Y 922. No Money Down. ONLY.....25.95

83 Y 925. Standard 9-v. Battery.

For above. 4 oz. NET.....95c

83 Y 926. 9-v. Mercury Battery.

Extra-long life. 4 oz. NET...1.74

59 Y 198. Earphone. For private

listening with above transistor

portable. With cord and plug.

Shpg. wt., 5 oz. NET.....1.67

### MAGNETIC DASHBOARD RADIO MOUNT

Make an auto radio out of your Knight-Kit 5-Transistor Portable. Handy mount magnetically holds radio securely on dashboard or other steel surface. Shpg. wt.,  $\frac{1}{2}$  lb.

59 R 946. ONLY.....2.97



# knight-kit®

## HOBBYIST KITS



**BUILD CIRCUITS  
LIKE THESE . . .**



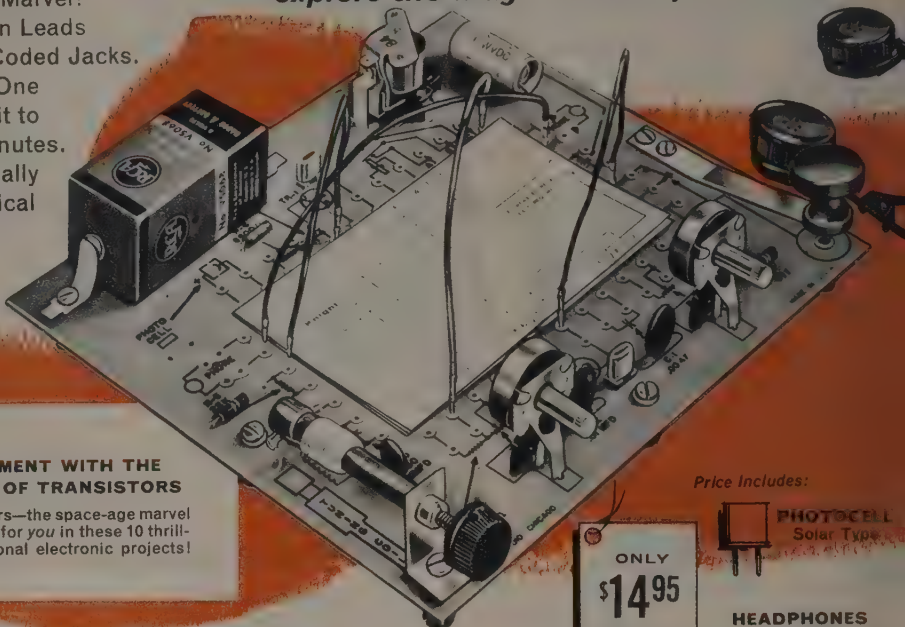
**AM RADIO.**  
Tune in your  
favorite local  
stations



**CODE OSCIL-  
LATOR.** Learn  
to send and re-  
ceive code

An Electronic Marvel!  
Special Plug-In Leads  
and Number-Coded Jacks.  
You Go from One  
Exciting Circuit to  
Another in Minutes.  
You Can Actually  
Build 10 Practical  
Fun-Filled  
Projects—  
One After  
Another

*explore the magic world of electronics*



### EXPERIMENT WITH THE WONDER OF TRANSISTORS

Let transistors—the space-age marvel  
—go to work for you in these 10 thrill-  
ing, educational electronic projects!

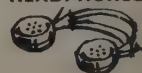
Price Includes:



**PHOTOCELL**  
Solar Type

ONLY  
**\$14.95**  
Less Battery

**HEADPHONES**



*practical, fun-filled, educational projects*

## Exciting 10-Circuit Transistor Lab Kit

### BUILD ANY ONE OF THESE 10 FASCINATING CIRCUITS

- 2-Stage AM Radio
- Light-Operated Relay
- Wireless Broadcaster
- Code Practice Oscillator
- Electronic Switch
- 2-Stage Audio Amplifier
- Body-Capacity Burglar Alarm
- Electronic Timer
- Voice-Operated Relay
- Electronic Flasher

- Exclusive Plug-In Leads for Unequaled Simplicity
- 10 Genuine Separate Projects—No Duplication of Wiring
- All Circuitry Mounted on Durable Printed Circuit Board

A marvel of electronic versatility, this sensational kit takes you from one fun-filled project to another—*there's no duplication of wiring!* Heart of this kit is its printed circuit board, clearly marked to indicate where all components go. Once the basic components are soldered into place, there's no further soldering. Exclusive "plug-in" leads from each component take all the guesswork out of each project. You simply place any one of the 10 guide-cards on the printed circuit board and plug the leads into the number-coded jacks—just like a simplified telephone switchboard!

Entertaining and easy to follow, it demonstrates how transistors operate by means of 10 circuits that really work. One after another you'll build: an AM radio that gives loud, clear headphone reception—a wireless broadcaster that lets you "broadcast" to any nearby radio—an electronic switch of many uses—a voice-operated relay that controls the operation of a device through the use of sound—an oscillator for practicing code—an audio amplifier that lets you speak or play music through the headphones—and four other exciting circuits.

Includes a clearly written explanation of what each circuit does and offers a working demonstration of each completed project. Supplied complete—nothing else to buy. Comes with dual headphones which also serve as a microphone, plug-in circuit leads, 10 individual guide cards, 2 transistors, solder, relay and photocell, and an easy-to-understand manual. Battery powered; less battery, below. Shpg. wt., 2 lbs.

83 Y 208. ONLY . . . . . 14.95

83 Y 213, Battery for Above. Shpg. wt., 2 oz. ONLY . . . . . 69c



IT'S EASY  
TO GO  
FROM  
PROJECT  
TO PROJECT

**SPECIAL GUIDE-CARDS** guide  
your every move. Simply place cards  
on printed circuit board and plug  
leads into number-coded jacks.

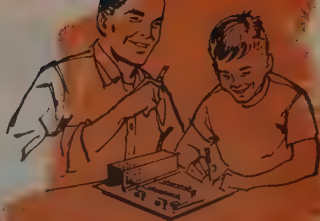




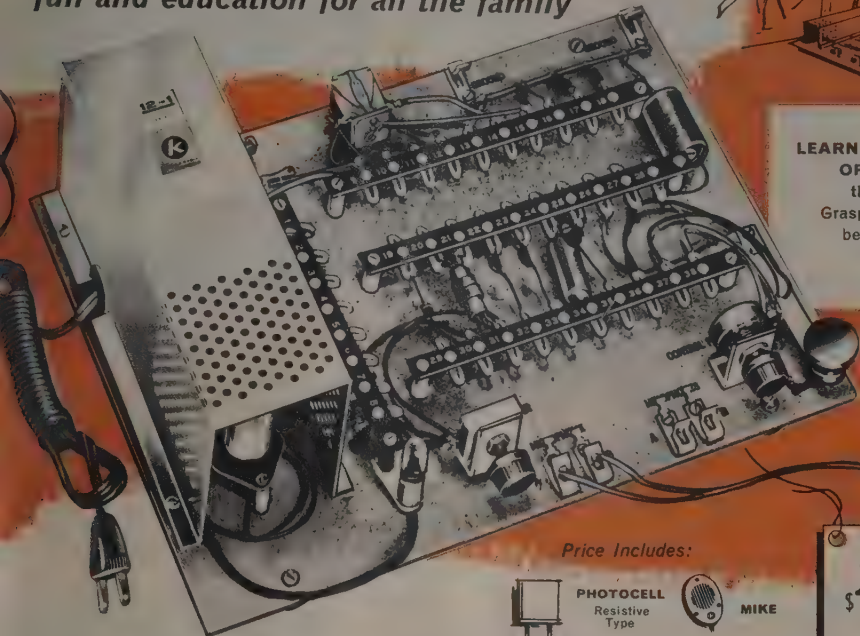
**RADIO BROADCASTER.** You can be your own radio announcer



**AUDIO AMPLIFIER.** Amplify sound through headphones



*fun and education for all the family*



**LEARN THE MARVELS OF ELECTRONICS**  
this fun-filled way  
Grasp the fundamentals  
behind 12 fascinating  
electronic circuits

Price Includes:



**PHOTOCELL**  
Resistive  
Type



**MIKE**

ONLY

**\$15.95**

*go from one exciting circuit to another just by shifting wires!*

## World-Renowned 12-in-1 Electronic Lab Kit

- Absolutely Safe—No Voltage in Circuitry Exceeds 25 Volts
- Permanent Parts Mounting—Just Switch Leads to Change Circuits
- No Circuit Duplication—Actually 12 Separate Projects

Here's the world-famous Knight-Kit "12-in-1" lab—acclaimed by kit builders everywhere as the most enjoyable, most fun-filled way to learn and apply the basic elements of electronics. One after another, you'll build all of the exciting, practical circuits listed at right. Once you solder the basic components into place, there's no need to change their position as you go from circuit to circuit—simply relocate a few wires according to the clear instructions given in the manual. Each fascinating project performs a practical function and demonstrates important electronic principles.

The informative manual included with this ingenious kit tells you exactly what to do, and clearly explains how each circuit works. In addition, it contains informative sections on commonly used schematic symbols, International Morse Code, and capacitor and resistor color code markings. Includes 8x11" mounting board, 12K5 tube, photocell, mike, hardware, solder, wire, and clearly detailed instructions. Less headphone, listed below. For 110-125 v., 50-60 cycle AC. Shpg. wt., 4 lbs.

83 Y 207. ONLY..... 15.95  
59 Y 112. Single Headphone for 12-in-1. Shpg. wt. 8 oz. .... 1.07  
59 Y 110. Double Headphone for 12-in-1. Shpg. wt., 12 oz. ONLY..... 2.08

**FREE! BASIC ELECTRONICS BOOK.** Yours *free of charge* with the 12-in-1 Lab Kit, this valuable book is based on the circuits featured in the "12-in-1"—actually serves as a first-course study and experiment guide in radio and electronics. Prepared by Allied's expert editorial staff, it's great for private study—ideal, too, for classroom use in schools.

**ALLIED**  
BASIC ELECTRONICS



### BUILD EACH OF THESE TWELVE FASCINATING, USEFUL PROJECTS

**CODE OSCILLATOR.** Helps you learn to send and receive code.

**FLASHER.** Turns light on and off.

**VOICE-CONTROLLED RELAY.** Turns device on and off by talking in mike.

**CODE TRANSMITTER.** Lets you send code signals through your radio.

**AUDIO AMPLIFIER.** Amplifies voice or music to play through headphones.

**AM BROADCAST RECEIVER.** Private radio listening from 550-1300 kc.

**ELECTRONIC TIMER.** Up to 30 minutes.

**BODY-CAPACITY RELAY.** Turns light on or off by stepping on metal plate.

**WIRELESS "BROADCASTER."** Transmits voice through your radio.

**BEAM OF LIGHT RELAY.** Turns on devices when actuated by light.

**ELECTRONIC SWITCH.** Sounds an alarm when it rains.

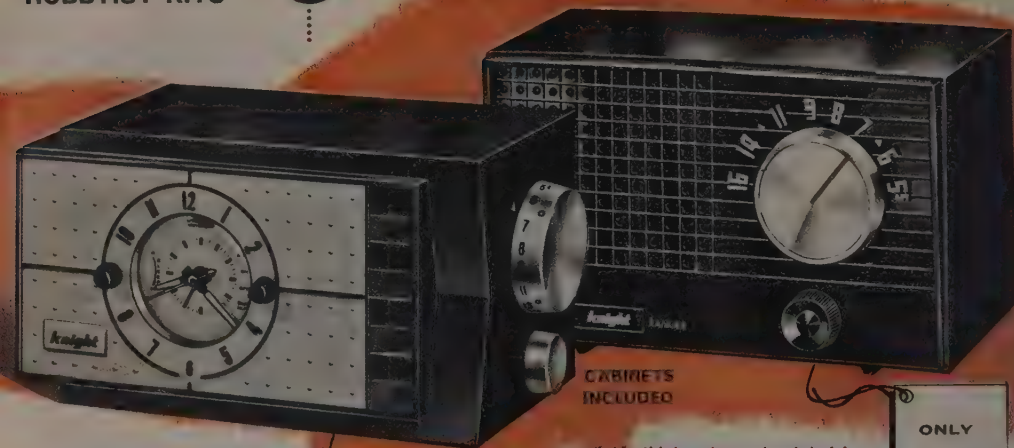
**MAGIC MUSIC OSCILLATOR.** Make music by moving hands in light beam.

# **knigh-kit**

## HOBBYIST KITS



top-quality radios you'll build with pride . . .  
for the whole family to use and enjoy!



WAKE UP TO MUSIC!

### **"Ranger" Clock-Radio Kit**

Features Telechron clock . . .  
automatic sleep switch . . . convenient  
appliance outlet

- Makes Extensive Use of Printed Circuitry and Plug-in Modules for Easy Assembly
- Provides Crystal-Clear AM Broadcast Reception

Providing excellent reception of the standard AM broadcast band, the Knight-Kit "Ranger" Clock Radio features a built-in Telechron clock with a sleep-switch timer that lets you drift off to a musical dreamland at night (it shuts off after any desired time lapse up to one hour)—then wakes you up to refreshing music the next morning. In case you oversleep, an alarm sounds 10 minutes after the radio goes on. A 1200 watt outlet at the rear of the set turns on your coffee-maker, lamp, or other appliance automatically. This feature may be used to safeguard your home by turning on lights while you're out for the evening.

Building the "Ranger" clock radio is a fascinating experience in kit-building! Thanks to its unique, modularized circuit, anyone can do the easy assembly in surprisingly little time. The specially designed module units (pre-assembled resistor and capacitor assemblies) are simply plugged into a matching printed circuit board and soldered in place. Installation of two modules eliminates the need for wiring and soldering into place sixteen separate resistors and capacitors.

No special tools are required—all you need are a pair of long-nose pliers, a screwdriver, and a soldering iron. The clearly written step-by-step instructions tell you how and when to mount each part. Wall-sized picture diagrams show every construction detail—it's just like having an instructor at your side!

Cabinet is attractively finished in ebony and white. Luminous clock hands give correct time at a glance. Tubes include: 12BE6, 12BA6, 12AV6, 50C5; and 35W4 rectifier. Size,  $5\frac{1}{4} \times 9\frac{5}{8} \times 5\frac{3}{8}$ ". With cabinet, wire and solder, Telechron clock, and instructions. For 110-125 v., 60 cycle AC. Shpg. wt., 6 lbs.

83 Y 737. No Money Down. ONLY.....24.95

ONLY

**\$24<sup>95</sup>**

**NO MONEY  
DOWN**

CABINETS  
INCLUDED

easy-to-build, handsomely-styled, low  
cost AM table radio—provides years  
and years of dependable service.

ONLY

**\$16<sup>95</sup>**

### **"Ranger III" Superhet Radio Kit**

- Has Sensitive Superhet Circuit
- In Handsome, Smartly Styled Cabinet
- Extremely Easy-to-Put-Together
- Efficient, Full-Toned PM Speaker
- Built-In Hi-Q Loop Antenna

Featuring finest quality parts and expert design, this handsomely styled table radio provides outstanding superhet reception of standard AM broadcasts. You're sure to enjoy its top-notch performance—and you'll marvel at the easy, fun-filled assembly.

Covers the entire broadcast band for exciting reception of your favorite programs. Top-quality Alnico V speaker and acoustically designed cabinet provide clear, full tone. Sensitive superhet circuit includes automatic volume control to reduce blasting and fading. Has cadmium-plated steel chassis, smooth-tuning ball bearing capacitor, smart black case accented in white to complement any decor. Construction of this receiver will reward the builder with top performance, years of dependable service, and the pride of accomplishment that comes from building a working radio receiver.

Miniature tubes include: 12BE6, 12BA6, 12AV6, and 50C5. Rectifier is a 35W4. Highly efficient, built-in hi-Q loop antenna is provided for maximum sensitivity. Complete with all parts, cabinet, wire and solder, and easy-to-follow instructions.  $5\frac{5}{8} \times 8\frac{3}{8} \times 4\frac{1}{8}$ ". For 110-125 v., 50-60 cycle AC or DC. Shpg. wt.,  $4\frac{1}{2}$  lbs. 83 Y 736. ONLY.....16.95

#### **EASY TERMS**

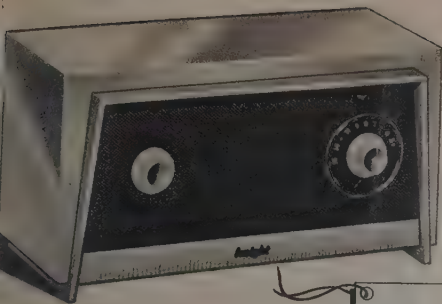
Open an Allied CREDIT  
FUND ACCOUNT—In-  
crease your buying  
power up to 50%.  
No money down . . . up to  
24 months to pay.

#### **MONEY-BACK GUARANTEE**

The Knight-Kit you pur-  
chase must meet with your  
complete satisfaction, or  
your purchase price will  
be refunded.

**Knight-Kits Have Easiest-to-Follow Instructions**





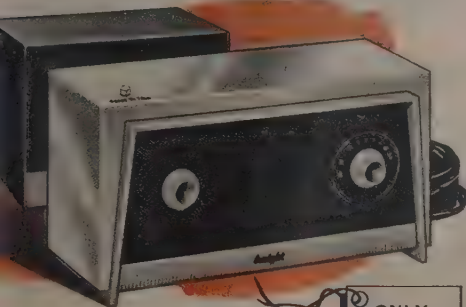
efficient, easy-to-assemble  
printed circuit, AM superhet radio

ONLY  
\$18<sup>95</sup>

## "Ranger III-PC" AC-DC Radio Kit

This beautifully styled table radio will amaze you with its excellent tonal quality and crystal clear reception over the entire broadcast band. The use of printed circuitry makes assembly a marvel of simplicity. Has sensitive superhet circuit with AVC, cadmium-plated steel chassis, quality Alnico V speaker. Cabinet is ivory with brown speaker mesh. 4 tubes plus rectifier. With parts, cabinet, speaker, wire and solder, step-by-step instructions. 5¼x10x5". For 110-125 v., 50-60 cycle AC or DC. Shpg. wt., 4¾ lbs.

3 Y 738. NET.....18.95



It's a top-performance radio!  
It's an efficient intercom!

ONLY  
\$27<sup>50</sup>  
NO MONEY  
DOWN

## "Ranger" Radio-Intercom Kit

Consisting of a Master and a Remote unit, this flexible radio-intercom kit serves as a standard AM radio, an efficient 2-way intercom, and a background-music distribution system. Remote can receive broadcasts from Master and call Master (automatically muting radio). Up to 3 Remotes can be used. Master, 5¼x10x5"; Remote, 5x6½x4½". Ivory cases with brown speaker grilles. With wire and solder, 50' cable. For 110-125 v., 50-60 cycle AC. Shpg. wt., 8½ lbs.

3 Y 739. Master and Remote. ONLY.....27.50

3 Y 298. Extra Remote Kit. Less cable. 2½ lbs.....3.95

W 604. Extra Cable. Wt., 100', 2½ lbs. PER FOOT...3c

outstanding value 2-station intercom  
anyone can afford!



Includes  
Master and  
Remote

ONLY  
\$14<sup>95</sup>

amazing sensitivity...  
responds to a whisper!

## Low-Cost Intercom System Kit

- Incorporates 2-Stage, High Gain Audio Amplifier
- With Simplified Step-by-Step Instructions; Can Easily Be Assembled by Anyone

One of the most useful kits ever designed! Consisting of a Master station and a Remote station, it has hundreds of uses in the home, office, store, shop, etc. Can easily be built by anyone. Master features a high-gain, 2-stage audio amplifier circuit; accommodates up to 3 Remotes in parallel. All Remotes can communicate with each other when Master is turned on.

Perfect for electronic "baby-sitting"; can be installed in the nursery to permit continuous listening in. In the office or shop, communication can be private or non-private by simple manipulation of the "Press-to-Talk" switch on the Master and the "Talk-Listen" switch on the Remote. Master has volume control; only Master need be plugged into a power outlet. Both Master and Remote have high-quality 4" PM speakers.

Size of each unit, 5x6½x4½". Metal cabinets in ivory with brown speaker grilles. With all parts for Master and Remote, 50' cable, instructions. For 110-125 v., 50-60 cycle AC or DC. Shpg. wt., 7¼ lbs.

83 Y 297. Master and 1 Remote. ONLY.....14.95

EXTRA REMOTE STATION KIT. For use with above. Less cable, below. Shpg. wt., 2½ lbs.

83 Y 298. ONLY.....3.95

EXTRA CABLE. Shpg. wt., 100 ft., 2½ lbs.

49 W 604. NET PER FOOT.....3c

## FOR HOME, STORE, OFFICE AND SHOP



# **knight-kit®**

## **HOBBYIST KITS**

Presenting Two All-New  
Wireless Intercom Kit  
Systems in Money-Saving  
Easy-To-Build Form



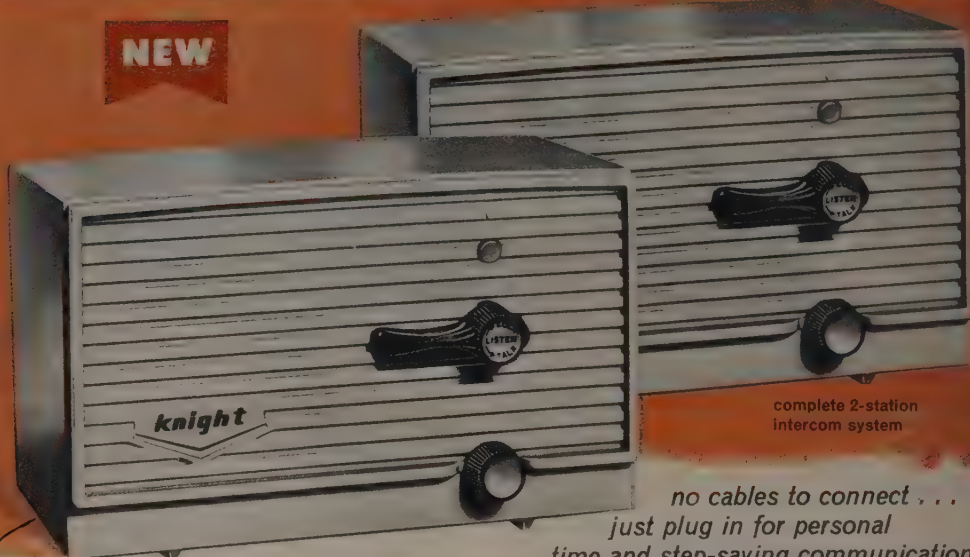
**Exciting new Wireless intercom systems . . .**

**REQUIRES NO WIRING  
BETWEEN STATIONS**



Just plug into  
any wall outlet . . .  
and you're  
ready to talk

**NEW**



complete 2-station  
intercom system

*no cables to connect . . .  
just plug in for personal  
time and step-saving communication!*

ONLY  
**\$38<sup>90</sup>**  
NO MONEY  
DOWN

## **Low Cost Wireless Intercom System Kit**

- All Stations Are Masters—All Can Originate Calls
- Super-Efficient Squelch for Silent Standby
- Modern, Attractively-Styled Cabinets
- Variable Frequency Control for Separate Systems

In step with the convenience trend in today's modern living, Knight-Kit presents an all-new Wireless Intercom system in amazingly low-cost, build-your-own, kit form. You'll find dozens of time and step-saving uses for these modern, attractively-styled units in the home, office, shop—anywhere. Sensitive receiver section has two audio stages to provide plenty of reserve gain for reliable communication between distant stations. May even be operated between adjacent buildings or apartments, as long as both are supplied by the same power-company line transformer.

No wiring between stations is required. Simply plug power cord into AC or DC wall outlets to establish instant communication between any two or more locations. All stations are masters and each can call any other station. Convenient Talk-Listen switch lets you "press-to-talk" or lock station in "Talk" position for extended periods of transmission without holding the switch down manually.

Front-panel volume control has handy "on-off" switch. Super efficient noise squelching circuit provides silent standby. Variable frequency control lets you operate separate systems at the same time—each system remaining entirely independent of the other. The smartly-styled, cream-toned, molded plastic cabinets blend with any room decor. Uses 4 tubes and silicon-diode rectifier. Complete with all parts for building a 2-station system, wire, solder, tuning tool and easy-to-follow instructions. Size of each unit, 5½x9x5½". Extra stations may be added as desired. For 110-125 v., 60 cycle AC or DC. Shpg. wt. 7 lbs.

83 YX 917. Complete 2-station System. ONLY..... **38.90**

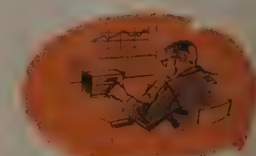
83 Y 941. Additional Stations. Wt., 3½ lbs. EACH, ONLY..... **19.45**



Electronic "Baby-Sitter"



Talk From House to Garage



For Inter-Office Use



... just plug in and Talk ... and so easy to assemble!



completely portable ...  
move stations from place  
to place as desired

save time and steps  
in the home, office  
and store



- No Cables to Install
- Variable Frequency Control
- Years of Trouble-Free Use
- All Stations are Masters
- "Squelch" Circuit Stops Power Line Interference

**NEW**



Gorgeous  
Cabinets

### ALL-TRANSISTOR CIRCUIT!

Requires no On-Off switch!  
Draws a maximum of 4 watts  
of power—hardly more than an  
ordinary electric clock.

ONLY  
**\$45<sup>90</sup>**  
NO MONEY  
DOWN

*for a lifetime of dependable communications*

## All-New Transistorized Wireless Intercom System Kit

It's completely transistorized—it's wireless—it requires no installation—it's the finest, most advanced intercom kit you can buy! Offering top flexibility, this deluxe 2-station system will provide you with years and years of ultra-reliable communication in your home, office or shop; from your house to garage; or even between adjacent homes or buildings on the same electric-company line transformer.

Very carefully engineered, this marvelous intercom gives you all the advantages of transistorized operation: complete freedom from noise, hum and microphonics; virtually maintenance-free operation since there are no tubes to burn out; compact size; and extremely cool operation thanks to amazingly low current drain—so little, in fact, that there is no need for an On-Off switch. A special noise-silencing "squelch" circuit provides quiet, static-free "standby" operation.

Stations employ extra-large press-to-talk buttons with press-to-side "lock-on" design—lets your intercom "baby-sit" while you are in the basement, out on the porch, etc. Special-design volume control makes it impossible for you to inadvertently turn the volume below an audible level and miss a call. Also featured—a variable frequency control that lets you operate two wireless systems simultaneously and independently.

Beautiful molded-plastic cases are styled in Oxford Gray and Eggshell White. Each unit, 3x8½x5¾". With transistors, all parts, wire, solder and easy-to-follow instructions. For 110-125 v., 50-60 cycle AC or DC. Shpg. wt., 5 lbs.

83 YX 991. 2-Station System. ONLY..... 45.90

ADDITIONAL STATION. For system above. Any number may be added. Shpg. wt., 2½ lbs.

83 Y 992. No Money Down. ONLY..... 22.95



**ENJOY THE ADVANTAGES** of a fine Knight-Kit intercom system right now. Use Allied's new Credit Fund Plan—no money down—up to 24 months to pay.

**SATISFACTION IS GUARANTEED** on every Knight-Kit. After you assemble your kit, it must meet with your complete satisfaction or your purchase price will be refunded.

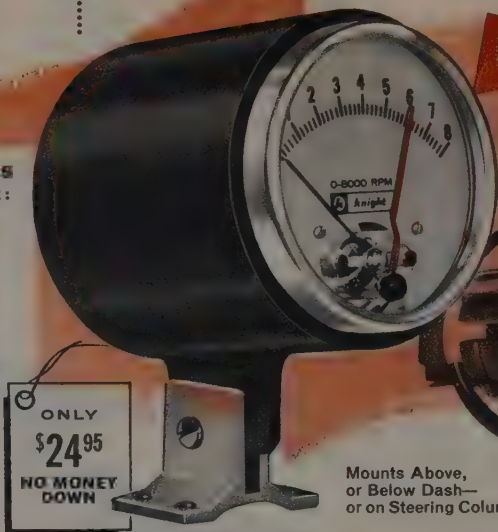
Call the Family to Dinner



useful, low-cost kits  
for better driving

### WHY PROFESSIONALS USE A TACHOMETER:

Experts know that for top fuel economy, or running your car at its maximum developed horsepower, a good tachometer is a must. Great for marine applications, too—tells you exactly how your outboard or inboard motor is performing.



**NEW**

Black Aluminum Housing  
— Handsome Metal Trim

ONLY  
**\$24.95**  
NO MONEY  
DOWN

Mounts Above,  
or Below Dash—  
or on Steering Column

*maintains 3% accuracy regardless of temperature or voltage variation!*

## Money-Saving Transistorized Electronic Tachometer Kit

- Linear 0-8000 rpm Meter Scale—Precision D'Arsonval Movement
- Easy to Build—Easy to Install

Now you can drive as the experts do with the aid of this all-new Knight-Kit Tachometer kit. Comparable to units costing many times its low kit price, this precision instrument accurately registers engine speed in rpm—*electronically*. Transistorized switching and zener diode regulation provide exceptional 3% of-full-scale accuracy—*regardless of temperature or voltage changes!* A handy, red, adjustable reference pointer may be preset to any desired speed—lets you know at a glance when to shift gears. Operates with 1-8 cylinder, 2 cycle

or 1-16 cylinder, 4-cycle engines using ignition coil and distributor—9-32 VDC. Also operates with magneto and 6-v. DC systems when used with external 12-v. battery (not supplied, see below). Illuminated meter is easily calibrated from 60-cycle house current. Available in positive-ground and negative-ground models. (Virtually all late-model U.S. cars have negative-ground ignition systems.) Supplied with cables, universal-mount swivel base, and hardware for all types of mounting.  $4\frac{1}{2} \times 3\frac{1}{4} \times 3\frac{1}{8}$ ". Shpg. wt., 4 lbs.

83 Y 944. For Negative-Ground Systems. EACH,  
83 Y 980. For Positive-Ground Systems. ONLY... 24.95  
83 Y 909. 12-v. Battery & Accessories. 4 oz. ONLY... 1.50

5% ACCURACY



Easy to Install

*know what your generator is doing!*

## 12-Volt Ammeter-Voltmeter Kit

READS CURRENT & VOLTAGE AT A GLANCE

ONLY  
**\$9.95**

- Replaces Red-Light Indicators in Automobiles
- Large, Illuminated Meters Read at a Glance—Highly Accurate
- Indicates Battery Voltage; Charge—Discharge Current

Accurate and dependable, this easy-to-build kit is designed for motorists who want more than a red light to tell them how their car's electrical system is working. Easy-to-read meter scales show amps from -30 to +30 with 0 center scale, and voltage from 9-15 volts. May be used with negative or positive ground systems. Chrome-plated panel has black rubber safety trim. Complete with cables for all cars except rear-engine types, wire and solder. Shpg. wt.,  $1\frac{1}{2}$  lbs.

83 Y 711. ONLY..... 9.95



Fast-acting . . . ultra-sensitive . . . low in cost

## Photoelectronic Relay Kit



For "Announcing"



For Counting



For Protection



ONLY  
\$12<sup>95</sup>

Here's a swift, silent workman that does 1001 jobs in the home, store or plant. You'll find all kinds of uses for this light-controlled switching device—turning lights on and off, opening doors, counting, burglar alarms, "announcing" customers, etc. You can use any light source to activate it—auto headlights, daylight, even light energy from molten metals!

Employs highly-sensitive, cadmium-selenide photocell (more sensitive than sulphide) in a thyatron circuit. Relay contacts rated at 1.5 amps. Great for production-line counting and similar uses (see listings of electronic counters listed elsewhere in this catalog). Makes as many as 600 counts per minute. Sensitivity, 250 milli-foot candles; power consumption only 3 watts.

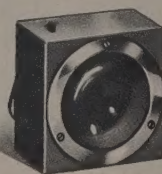
Has "Trip" function for continuous ringing of alarms, etc., after a single interruption of light beam; and "Auto" for use when you want relay to operate each time light is blocked. Supplies 6.3 VAC at 0.6 amps for direct connection to alarms, counters, etc. Complete with photocell, metal case, wire and solder. 4x3x5". For 110-125 v., 60 cycle AC. Shpg. wt., 3 lbs.

83 Y 702. ONLY . . . . . 12.95

SENSITIVE—  
RESPONDS TO  
JUST A  
GLIMMER OF  
LIGHT



WITH PHOTOCELL



**OPTIONAL LIGHT SOURCE KIT.** Sealed-beam unit that actuates relay from over 500 ft. Removable red filter, supplied, makes beam invisible by day, barely seen at night. 6x6x4 1/4". For 110-125 v., 60 cycle AC. 5 lbs.

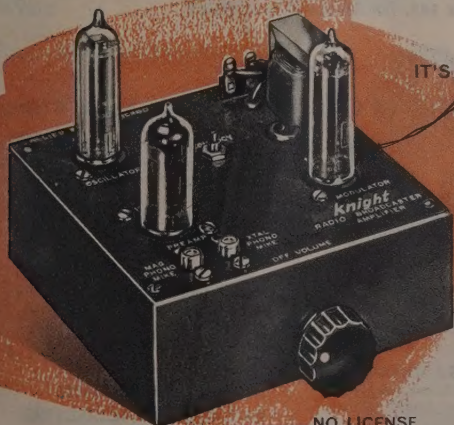
83 Y 703. ONLY . . . . . 7.75

77 Y 035. Chime. 2 lbs. . . . . 4.70

Exciting "on the air" fun for the whole family!

## Radio Broadcaster/Amplifier Kit

IT'S A RADIO BROADCASTER! IT'S AN AUDIO AMPLIFIER!



NO LICENSE  
REQUIRED



ONLY  
\$12<sup>95</sup>

- Plays Through Any AM Receiver
- Use It with Phono or Microphone
- Puts Out a Strong, Clear Signal
- Easy and Fun to Put Together



### DOZENS OF FUN-PACKED USES

**RADIO BROADCASTER.** You'll have loads of fun making special broadcasts to any radio in your home—sing, speak, play records or a musical instrument. Your friends will be amazed!



**AUDIO AMPLIFIER.** Enjoy a low-cost, quality audio amplifier by simply attaching record player to Broadcaster/Amplifier's input and connecting its output to any PM speaker.

Jam-packed with fun for the entire family, this popular kit actually lets you *broadcast* through any AM radio! Just plug in a mike or record player and you're "on the air". Surprise your friends by tuning in radio shows on which you are the announcer, disc jockey, news commentator, etc. Enjoy records anywhere in the house by just "tuning them in" on the nearest radio.

Just like a real radio station, the Radio Broadcaster provides nearly 100% modulation—tunes to any frequency from 600 to 1600 kc. Connects directly to a speaker, too, for use as an audio amplifier. Has equalized input for use with magnetic phono cartridges—needs no external preamp. Equalization disconnects for use with mike. Also accepts crystal and ceramic phono cartridges. Complete with easy instructions, wire and solder. Less mike, below. 4 1/2 x 5 x 6". For 110-125 v., 50-60 cycle AC or DC. Shpg. wt., 2 3/4 lbs.

83 Y 706. ONLY . . . . . 12.95

99 S 519. Crystal Mike for Above. Attractive gray case; 5-ft. cable. Shpg. wt., 1 lb. NET . . . . . 2.95



# knight-kit® 100-in-1 Electronic Lab Kit

A PRODUCT OF ALLIED RADIO



more fun, more thrills, more valuable electronic experience than you can imagine are yours in this fascinating, amazingly low-cost knight-kit!

ONLY  
**\$29.95**  
NO MONEY  
DOWN

Just imagine converting sunlight into electricity that will power a radio, or making an audio amplifier for top sound from records, or broadcasting your voice through nearby radios—in fact, performing more than *one-hundred* exciting, fun-filled, educational electronic experiments! You'll see the space-age miracle of transistors go to work for you in dozens of different ways—discover how vacuum tubes operate—apply every basic type of modern electronic component.

You'll put together testing circuits that really come in handy for quick repair jobs on radios, motors, home appliances, etc. Talk from room to room—and even to neighbors—on an intercom you build yourself. It's simplicity itself to go from circuit to exciting circuit—there's no soldering! Main parts mount permanently in place on the colorful, professional-looking master control panel. Just change wiring on the unique, rear-mounted "snap-on" connectors according to the easy instructions, and presto!—a thrilling new project is "ready to go". Special safety-design transformer reduces all voltages to 25 volts or less for absolute electrical safety. Youngsters, oldsters—anyone and everyone will have a whole new world of fun and fascination with the Knight-Kit "100-in-1" Electronic Lab!

Everything you need is supplied—absolutely nothing else to buy. You get a solar-type photocell, speaker, headphones, meter, relay, antenna kit, wire, all parts, and carefully written, clearly illustrated step-by-step instruction manual. If you own a screwdriver, you're ready to set up your own electronic lab! 8x14½x8". For operation from 110-125 volts, 60 cycle AC. Shpg. wt., 6 lbs.

83 YX 997. No Money Down. ONLY.....29.95

**NOTHING LIKE IT ANYWHERE—AT ANY PRICE**

- ★ Performs more experiments than any other lab kit
- ★ Takes you from simple to advanced circuits
- ★ Features transistor as well as tube-type projects
- ★ Solderless—all you need is a screwdriver
- ★ Step-by-step learn-as-you-build instructions
- ★ Absolutely safe—uses only low-voltage circuits
- ★ Fun and fascination for young and old alike



## Build Any One of Over 100 Circuits Like These:

**12 RADIO RECEIVERS.** Hear your favorite AM programs on any one of 12 different receivers. From crystal set to tube-and-transistor radio you'll learn just how receivers work. You even build a solar-powered set plus one that takes its power from the broadcast signal alone!

**CODE TRANSMITTER.** "Broadcast" code to nearby AM receivers.



**RADIO BROADCASTER.** Be your own announcer, disc-jockey, newscaster, etc.



**"LIE DETECTOR" EXPERIMENT.** Actually demonstrates the basic principles of lie detector circuitry.



**METRONOME.** Learn rhythm the easy way with a visual and audible electronic metronome.



**FLASHLIGHT BATTERY CHARGER.** Save money—bring your weak flashlight batteries back to life in a jiffy.



**AUDIO AMPLIFIER.** Top sound from your records—through built-in, full-toned PM speaker.



**APPLAUSE METER.** Accurately registers the winner of your own talent shows.



**LIGHT METER.** Meter actually reads changes in light striking photocell.



**ELECTRONIC THERMOMETER.** Measure temperature changes electronically on the built-in meter.



**TELEPHONE-TYPE INTERCOM.** Dependable, 2-station intercom communication.



## AND OVER 80 MORE PROJECTS INCLUDING:

Electronic Timer • Conelrad Monitor • Test Instruments • Sound-Powered Phone • Mike Preamp • Signal Strength Meter • Photo-electric Relay • Electronic Scale • Fire Alarm • Voice-Operated Relay • Burglar Alarm • Electronic Switch • Light Beam Receiver

**COMPLETE CATALOG INDEX BEGINS ON PAGE 361**



# over 100 Fascinating Electronic Projects

your open door to the exciting electronic world of today and tomorrow

**new**



**knight-kit**

100-in-1  
ELECTRONIC  
LAB KIT

ONLY **\$29.95**  
NO MONEY DOWN

**MONEY-BACK GUARANTEE**

**YOU GET EVERYTHING YOU  
NEED FOR EVERY PROJECT**

Nothing else to buy! Includes:



**Clearly written and  
illustrated manual  
guides your every move**

Each of the more than 100 projects  
is illustrated in detail and thor-  
oughly explained. No guesswork!  
You always know exactly what you  
are doing and why.



**AN EXPERIMENTER'S  
DREAM.** Think of it—all the  
high-quality components you  
need for more than 100 thrilling  
projects; plus smart-looking  
master control panel.



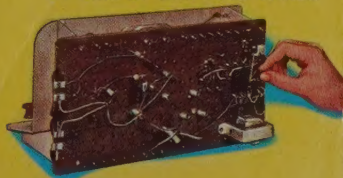
**GREAT FOR GROUPS.** The  
amazing versatility of the "100-  
in-1" Electronic Lab makes it  
ideal for Boy Scout projects,  
classroom study, etc.—as well  
as good family fun.

**INGENIOUS NEW  
"SNAP-ON" CONNECTORS  
... NO SOLDERING  
REQUIRED**

Unique "snap-on"  
connectors employed  
in the 100-in-1 Elec-  
tronic Lab make set-  
ting up any of the  
more than 100 circuits a snap!  
Simply pull connector back—  
insert lead—then let connector  
snap in place.



**...YOU'LL GO FROM THRILL-  
ING PROJECT TO PROJECT  
BY SIMPLY SHIFTING WIRES**



Changing from one exciting cir-  
cuit to the next is a marvel of  
simplicity. Once the main parts  
are mounted in place on the  
master control panel, you go  
from one project to another by  
simply repositioning a few leads  
and components on the rear-  
mounted "snap-on" connectors.  
Just follow the easy instructions  
—you can't go wrong!



now . . . space-age electronics research brings you this revelation in sound . . .

**ALL-TRANSISTOR** stereo amplifier . . . first time in easy-to-build kit form



CASE OPTIONAL

## **knight-kit®** KX-60 50-Watt Transistor Stereo Amplifier Kit



*NEW precision-engineered all-transistor circuit*

**EMPLOYS 20 TRANSISTORS  
AND 4 DIODES—UNIQUE  
"THERMAL FEEDBACK" CIRCUIT**



enjoy the advantages of space-age transistorized stereo high-fidelity

**Virtually No Hum or Noise.** Silken silence between selections and during quiet passages.

**No Microphonics.** Shake it, rap it, tap it—no mechanical noise to mar sound quality.

**Superb Sound.** Musical reproduction that must be heard to be believed.

**Runs Cool.** Requires no ventilation.

**No Waiting for Warm-Up.** Turn it on—start playing records instantly.

**Durable.** Immune to jars, vibrations, etc.

**See page 391 for complete information and specifications.**

**ONLY  
\$79<sup>95</sup>**

**NO MONEY  
DOWN**

- Advanced-Design, Peak-Efficiency 20-Transistor Circuit
- Incorporates Every Necessary Stereo Control Feature
- Direct-Coupled Output—No Transformers or Capacitors Are Employed in Output Stage
- Functionally-Grouped Controls for Convenient Operation
- Regulated Power Supply For High Stability

Opening vast new horizons in stereo high-fidelity performance, the amazing Knight-Kit KX-60 is the first completely new, all-transistor amplifier ever offered in low-cost, build-your-own form. Featuring "Thermal Feedback", a Knight-Kit pioneered circuit application, the KX-60 boasts 50 watts IHFM music power with genuine *direct coupling* between its output stage and your speakers. Frequency response is exceptionally wide and flat—especially in the low-frequency range—since no output transformers or DC blocking capacitors are employed in the KX-60's output stage.

Controls include: Blend, Balance, Volume, Selector, clutch-type dual-concentric Bass and Treble, Rumble Filter, Scratch Filter, Stereo/Reverse, and Mon L/Stereo/Mon R. Regulated power supply provides the high stability required for best performance in transistor circuits. Includes tape recording outputs. Ultra-compact and lightweight, the KX-60's "precision-look" styling features a rich Sierra Gold panel accented by a black Selector and Volume control escutcheon on the left. Less case, see below. 2 $\frac{3}{4}$ "x11x9 $\frac{1}{4}$ ". For operation from 110-125 volts, 60 cycle AC. Shpg. wt., 8 lbs.

83 YU 994. No Money Down. ONLY ..... 79.95

83 YX 644. Metal Case for KX-60. Shpg. wt., 5 lbs. ONLY ..... 4.95

83 YX 645. Wood Case for KX-60. Walnut. Shpg. wt., 5 lbs. ONLY ..... 12.45

Smart, Up-to-the-Minute  
Decorator Styling

Runs Cool—Install  
It Anywhere

See pages 385-407 in this catalog for more famous-for-value Knight-Kit stereo high-fidelity components.

Hi-fi, test equipment, hobby items, Ham gear, lab units—all are available in low-cost Knight-Kit form—see pages 385-440.

